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JAMAICA

METEOROLOGICAL OBSERVATIONS

VOL. V.

CONTAINING REPORTS NOS. 388 TO 478

FROM

JANUARY 1911, TO DECEMBER 1917, INCLUSIVE.

JAMAICA
GOVERNMENT PRINTING OFFICE, KINGSTON.
1918.

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No. 388, p. 1. Morant Pt. L.H., Temp. 3 p.m.; for 68°.4 read 78°.4. Max.; for 80°.2 read 80°.5. Range; for 7°.2 read 7°.0.
No. 389, p. 2. Hampstead. For 4.31 read 3.93.
No. 391, p. 1. Morant Pt. L. H. Wind at 3 p.m.; for 16.6 read 14.6.
p. 2. Richmond Pen. For 9.42 read 1.10.
No. 392, p. 1. Morant Pt. L. H. Bar. at 3 p.m.; for 29.897 read 29.879.
Negril Pt. L. H. Upper clouds 3 p.m. For 4.7 read 0.7.
p. 2. Agualta Vale. For 9.09 read 9.04.
p. 4. Island Rainfall. For 10.31 read 9.33.
No. 393, p. 2. Port Maria. For 7.31 read 7.23.
No. 394, p. 3. Sweet River. For 5.84 read 7.84.
No. 395, p. 1. For Troja read Kendal up to Feb. 1912.
No. 398, p. 4. Comparative table. For Oct. read Nov.
Grand Cayman. For Nov. read Oct.
No. 400. p. 5. Morant Pt. L. H. See corrected table in No. 403. p. 5.
No. 401, p. 1. Morant Pt. L. H. Extreme range; for 24°.0 22°.0.
p. 5. Negril Pt. L. H. Mean max. temp; for 86°.6 read 86°.8.
No. 402, p. 2. Rose Hall. For 1.39 read 1.79.
p. 3. Dunkleys. For 11.19 read 4.19.
No. 404, p. 2. Unity Valley. For 2.80 read 3.05; for 7 days of rain read 8.
No. 405, p. 1. Kingston. Humidity 3 p.m.; for 76 read 63.
Morant Pt. L. H. Extreme min.; for 71°.1 read 74°.1.
No. 406. p. 1. Kingston. Humidity 7 a.m.; for 72 read 63.
Kingston. Humidity 3 p.m.; for 75 read 73.
Kingston. Wind 7 a.m.; for 4 read 4.1.
Kingston. Wind 3 p.m.; for 20.0 read 19.2.
p. 3. Morgan's Bridge. For 6.45 read 11.88 For 16 rainy days read 8.
Ballast Ground. For 0.00 read 2.25.
No. 407, p. 2. Cambridge. For 13.98 read 2.29, and dele the rest.
No. 409, p. 1. Morant Pt. L. H. Extreme range; for 14°.1 read 21°.0.
p. 2. Hampstead. For 13.99 read 13.79.
Port Maria. For 6.65 read 5.65.
No. 410, p. 1. Morant Pt. L. H. Wind 3 p.m.: 14.5.
No. 412, p. 2. St. Ann's Bay. For 86.64 read 16.64.
p. 3. Exeter. For 0.84 read 1.14.
p. 4. For 18.70 at Moore Town read 22.02 at Mt. Holstein.
No. 413, p. 4. Island Rainfall. For 3.65 read 3.64.
No. 414, p. 2. Rio Hoe. For 8.88 read 0.88.
p. 1. Wind per diem; 188 applies to Kingston.
No. 415, p. 2. Lottery. For 0.30 read 2.30.
No. 416, p. 1. Morant Point L.H. Wind per diem; for 230 read 283.
No. 421, p. 3. Mocho. For 1.20 read 5.30.
No. 426, p. 5. For "Estimates per month" read Extremes for month. Heading of 7th and 10th columns, for "Mean" read Max.
No. 427, p. 2. Agualta Vale. For 2.28 read 3.28.
Water Valley. For 2.71 read 3.71.
Lucky Hill. For 3.88 read 3.69.
No. 428, p. 4. Island Rainfall. For 3.84 read 4.10.
No. 429, p. 1. Morant Pt. L. H. Bar. 7 a.m.; for 29.941 read 29.975. Bar. 3 p.m.; for 29.846 read 29.936.
p. 4. Island Rainfall. For 4.99 read 4.74.
No. 430. p. 1. Hill Gardens. Max.; for 58.4 read 68.4 Range; for 21.0 read 11.0.
p. 2. Lucky Hill. For 2.80 read 2.20.
No. 432, p. 4. Island Rainfall. For 2.92 read 2.94.
No. 433, p. 2. Lucky Hill. For 1.37 read 1.05.
No. 434, p. 2. Lucky Hill. For 1.14 read 1.24.
No. 435, p. 2. Lucky Hill. For 3.93 read 3.97.
No. 437, p. 2. Lucky Hill. For 8.21 read 7.94.
No. 438, p. 3. Great Valley. For 14.05 read 14.25.
No. 439. p. 3. Great Valley. For 5.30 read 4.85.
p. 5. Bar. April, 7. a.m.; for 29.941 read 29.975. 3 p.m.: for 29.846 read 29.936. Means 7 a.m. for 29.971 read 29.974. 3 p.m.; for 29.927 read 29.934.

No. 443, p. 1. Hope Gardens. Dew Pt. and Humidity. 3 p.m. Read 73.1 and 71.
p. 2. Water Valley. For 7.87 read 8.77.
No. 444, p. 1. Hill Gardens. Max. and Range; read 71.8 and 12.4.
No. 445, p. 2. Long Pond. For 4.47 read 5.21.
Hyde Hall. For 4.5 read 5.51.
Steelfield. For 3.44 read 4.40.
Kent. For 6.17 read 7.22.
Content. For 6.11 read 6.83.
Cinnamon Hill. For 4.28 read 4.25.
No. 446, p. 9. Last line but one. For 0.02 read 0.20.
No. 448, p. 3. Melrose. For 8.01 read 12.48.
No. 449, p. 2. Bath. For 21.13 read 21.15.
No. 450, p. 1. Hill Gardens. Temp. 3 p.m. and Max. read 64.0 and 68.0.
No. 451, p. 2. Vale Royal. For 8.44 read 8.19.
No. 451, p. 3. Bull Bay. For 0.00 read 0.18.
Kings House Gardens. For 0.80 read 0.60.
No. 452. p. 2. Ocho Rios. For 7.14 read 7.94.
No. 453, p. 2. Ocho Rios. For 2.20 read 2.31.
Liberty Hill. For 3.73 read 3.23.
No. 454, p. 2. Port Maria. For 5.42 read 5.52.
Runaway Bay. For 6.25 read 7.05.
No. 456, p. 2. Irish Town. For 14.22 read 14.20.
No. 457, p. 2. Greenvale. For 2.59 read 2.62.
Liberty Hill. For 7.42 read 7.22.
p. 3. Gordon Town. For 5.90 read 5.98.
p. 4. Average rainfall. Dele all the figures they apply to July, not to June.
No. 458, p. 2. Hampstead. For 2.85 read 3.85.
Ocho Rios. For 1.39 read 1.45.
p. 3. Bull Bay. For 7.25 read 7.35.
No. 459, p. 2. Alexandria. For 9.08 read 12.84.
p. 3. Gordon Town. For 21.76 read 21.72.
No. 461, p. 2. Agualta Vale. For 3.18 read 3.88.
Alexandria. For 7.64 read 7.76.
No. 462, p. 2. Hampstead. For 25.37 read 25.27.
Liberty Hill. For 18.48 read 15.48.
Vale Royal. For 10.85 read 9.95.
No. 465, p. 5. Jan. Dew pt., 3 p.m. For 67°.4 read 67°.1.
Mar. Dew pt., 3 p.m. For 66.2 read 67.2.
Apr. Dew pt., 7 a.m. For 68.6 read 68.4.
Nov. Temp. 3 p.m. For 80.2 read 80.5.
Nov. Dew pt., 3 p.m. For 72.8 read 72.6.
Dec. Dew pt., 7 a.m. For 64.0 read 63.2.
Dec. Humid. 7 a.m. For 87.0 read 85.0.
Means Dew pt. 7 a.m. For 68.7 read 68.6.
Dew pt., 3 p.m. For 70.8 read 70.9.
No. 466, p. 4. Island Rainfall. For 3.58 read 3.08.
No. 469, p. 3. Victoria Tn. For 4.16 read 5.16.
No. 471, p. 3. Denbigh. For 5.50 read 5.70.
No. 472, p. 2. Georgia. For 3.75 read 3.96.
p. 3. Troy. For 6.15 read 5.15.
No. 473, p. 4. Quarantine Station. For 1.12 read 0.12.
No. 475, p. 3. Spitzbergen. For 28.55 read 21.55.
p. 4. Southern division. For 15.05 read 14.05.
No. 476, p. 3. Victoria Tn. For 3.80 read 3.70.
No. 477, p. 3. Whitney. For 6.10 read 11.20.
Victoria Tn. For 3.37 read 3.87.

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No. 394

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

JULY, 1911.

METEOROLOGICAL RESULTS.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

Stations.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House .	8	30.009	29.980	81.7	83.6	85.2	78.2	7.0	86.5	31	74.5	6	12.0
Kingston .	24	29.987	29.937	79.2	86.7	91.6	73.7	17.9	94.7	19	70.6	19	24.1
Negril Point Light House	33	29.997	29.958	80.4	84.4	89.3	72.7	16.6	92.2	28	67.6	4	24.6
Castleton Gardens .	496	...	...	71.0	85.0	89.0	62.0	27.0	93.0	25*	60.0	8*	33.0
Hope Gardens† .	668	29.984	29.908	79.0	87.0	91.5	73.0	18.5	97.0	24*	69.0	3*	28.0
Stony Hill Reformatory .	1,400	...	...	71.9	82.0	86.5	68.0	18.5	92.0	17	65.0	2	27.0
Hill Gardens .	4,907	25.332	25.292	65.0	67.0	73.0	59.0	14.0	78.0	29	57.0	4*	21.0

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: (direction from and miles per hour.)				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House .	8	75.5	81	76.0	78	2.29	...	ESE	17.7	ESE	17.7	2.0	2.6	2.9	1.5	2.5	3.0
Kingston .	24	71.6	78	70.3	58	0.58	213	NNE	4.1	SE	21.2	0.3	0.6	3.3	2.5	1.3	3.5
Negril Point Light House‡	33	69.8	70	72.5	68	2.99	195	E by N	7.3	S	9.7	1.4	0.2	4.0	1.9	6.9	4.0
Castleton Gardens .	496	67.0	83	72.0	63	4.85	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens .	668	65.0	62	69.0	54	1.55	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory .	1,400	68.8	90	72.0	71	4.52	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens	4,907	60.0	82	62.0	84	0.41	...	...	...	...	...	...	...	...	...	...	...

* and on other days.

† Hope Gardens. Bar. read at 9 a.m. and 3 p.m.

‡ Negril Point Light House. Wind 11 p.m. E.N.E. 6.6.

RAINFALL FOR JULY, 1911.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to Weather Report, No. 256A. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

JULY, 1911.

NORTH-EASTERN DIVISION.	Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.				In.
Manchioneal ...	1.15	0.50	2	8	6.46
Spring Valley ...	4.54	1.06	1	13	..
Bath ...	...	...	...	...	...
Boston ...	1.48	1.00	20	3	7.34
Moore Town ...	15.06	...	...	...	20.23
Port Antonio ...	6.09	1.10	27	16	11.60
Fellowship ...	11.94	2.03	27	22	10.64
Windsor, Portland ...	...	...	..	...	...
Johnson River Bridge ...	3.23	0.80	7	10	7.71
Shrewsbury ...	...	...	...	...	...
Cedar Valley, St. Thos. ...	2.04	0.54	17	16	4.85
Moy Hall, St. Thos. ...	0.85	0.20	10	5	5.53
Hill Gardens ...	0.41	0.41	31	1	3.76
Buff Bay ...	3.36	1.03	8	9	7.37
Vinery ...	2.47	1.17	19	6	...
Windsor Castle, Port. ...	0.66	0.32	19	4	...
Greenvale, Portland ...	1.66	0.40	23	14	..
Mt. Holstein ...	0.74	0.34	31	7	3.35
Irish Town ...	0.45	0.25	2	2	...
Hardware Gap ...	0.00	0.00	...	...	4.27
Stony Hill Reform. ...	4.52	2.16	31	8	5.39
Castleton Gardens ...	4.85	2.10	31	7	6.16
Lawrence Tavern ...	1.20	0.80	31	4	5.43
Carew Castle ...	...	...	...	...	..
Agualta Vale ...	0.97	0.46	19	4	...
Water Valley ...	1.21	0.50	19	7	3.46
Albany, Ry. Station ...	...	...	...	...	...
Flatfield ...	2.54	0.60	31	7	...
Richmond, St. Mary ...	2.71	1.85	19	6	3.68
Hampstead, St. Mary ...	1.74	0.97	20	3	...
Kendal, St. Mary ...	...	...	...	...	...
Gayle ...	2.16	1.32	16	6	2.92
Rio Hoe ...	2.83	1.52	17	5	4.29
Unity Valley ...	1.74	0.97	6	12	5.92
Moneague ...	1.57	1.06	6	4	4.73
Union Hill ...	...	...	...	...	...
Claremont ...	1.87	1.22	18	2	3.43
Albion, St. Ann ...	1.27	0.44	17	9	4.24
Averham Park ...	1.91	0.94	17	4	3.38
Means ...	3.09	..	...	...	...

JULY, 1911.

NORTHERN DIVISION.	Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	2.57	0.41	7	14	4.19
Ocho Rios ...	2.28	1.00	6	6	2.34
Bogue, Ocho Rios ...	4.31	1.76	6	5	...
Arthurs Seat ...	4.66	1.62	6	8	...
Drax Hall ...	2.03	0.90	6	7	2.96
Liberty Hill ...	..	...	...	...	...
St. Ann's Bay ...	2.63	0.80	6	10	2.96
Seville ...	2.53	1.07	19	10	2.31
Richmond Estate ...	...	...	...	...	...
Llandovery ...	1.03	0.51	14	3	2.03
Southfield, St. Ann ...	..	...	...	...	...
Ballintoy ...	...	...	...	...	...
Brown's Town ...	1.20	0.36	6	6	2.68
Hyde Park ...	...	...	...	...	...
Dry Harbour ...	1.59	1.09	20	2	1.81
Chewmagna, St. Ann ...	2.19	1.55	1	5	3.07
Home Castle ...	0.80	0.40	20	4	2.16
Richmond Pen ...	2.98	1.47	31	4	2.90
Mahogany Hall ...	3.15	1.73	21	6	4.35
Barnstaple ...	3.45	2.00	21	4	...
Brampton Bryan ...	1.63	0.50	17	4	2.18
Bryan Castle ...	1.10	0.45	17	4	1.81
Braco ...	0.95	0.50	19	2	1.69
Arcadia ...	...	...	...	...	..
Lancaster ...	..	...	..	..	..
Harmony Hall ...	...	...	...	...	...
Vale Royal ...	...	...	...	...	...
Colchis Pen ...	...	...	..	..	..
Swanswick ...	1.60	1.30	6	3	...
Hyde ...	..	...	...	...	..
Georgia ...	0.83	0.40	19	3	2.[illegible]
Long Pond ...	1.14	0.55	6	4	3.[illegible]
Hyde Hall ...	0.88	0.55	17	3	[illegible].10
Steelfield ...	0.85	0.45	17	3	2.09
Etingdon ...	1.32	0.70	19	3	1.63
Oxford ...	1.28	1.10	17	2	2.24
Cambridge ...	1.30	0.60	17	5	3.12
Lottery ...	1.43	1.05	17	4	2.33
Falmouth ...	0.30	0.16	17	14	1.64
Florence Hall ...	0.64	0.35	17	3	...
Holland Pen ...	0.80	0.40	17	3	1.97
Orange Valley ...	...	...	...	...	...
Kent ...	0.45	0.25	17	2	1.66
Gales Valley ...	0.55	0.40	17	2	4.16
Canaan ...	...	...	...	...	...
Content ...	0.45	0.20	17	3	2.00
Belifield ...	0.22	0.12	10	2	...
Hampden ...	...	...	...	...	...
Moor Park ...	1.08	0.53	17	5	...
Success ...	0.10	0.10	13	1	1.46
Guilsbro ...	2.00	1.30	17	5	4.55
Cinnamon Hill ...	0.00	0.00	...	...	1.31
Rose Hall ...	0.15	0.15	13	1	1.12
Running Gut ...	0.48	0.40	13	2	1.25
Spring, St. James ...	0.00	0.00	...	...	1.65
Montego Bay ...	0.68	0.43	17	2	3.41
Fairfield, St. James ...	...	...	...	...	...
Round Hill ...	...	...	...	...	...
King Gate ...	...	...	...	...	...
Haughton Court ...	...	...	...	..	..
Sandy Bay ...	1.73	0.50	7	4	5.44
Lucea ...	1.87	0.62	17	8	5.50
Westfield ...	10.01	2.18	8	22	...

CENTRAL SUB-DIVISION.	JULY, 1911. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Rio Magno ...	3.14	1.75	6	8	...
Headworks, Rio Cobre ...	2.68	1.13	2	10	3.70
Linstead ...	7.84	0.84	29	16	5.93
Berkshire Hall ...	2.20	1.04	6	10	...
Point Hill ...	8.44	2.50	23	13	6.57
Brown's Hall ...	5.25	2.02	2	9	4.66
Worthy Park ...	4.35	0.76	28	9	4.34
Crofts Hill ...	3.09	0.68	31	5	...
Chapelton ...	2.50	0.75	31	10	3.65
Mears ...	...	...	...	...	...
Danks Works ...	2.99	0.93	31	10	3.48
Savoy House ...	3.23	1.28	31	12	3.15
Trout Hall ...	6.28	1.07	23	11	...
Cave Valley ..	...	..	...	...	...
Means	1.90	...	...	...	...
WEST-CENTRAL DIVISION.					
Whitney ...	6.80	1.70	31	13	...
Mocho, Clarendon ...	4.42	0.71	10	14	...
Baillieston ...	3.08	0.71	28	17	4.49
Brokenhurst ...	3.10	1.10	7	8	6.00
Christiana ...	3.65	0.71	23	13	4.37
Dudleigh ...	1.61	0.44	28	11	...
Rooter's Hill ...	5.83	0.96	23	16	...
Spitzbergen ...	2.94	0.68	28	18	..
Kendal, Manchester ...	5.77	1.08	23	15	5.45
Marshalls Pen ...	1.94	0.77	10	9	4.94
Mandeville ...	3.36	1.66	31	11	5.91
Carlton, Mandeville ...	2.67	1.32	31	11	...
Fairfield, Manchester ...	1.02	0.20	5	11	3.05
Ulster Spring ...	2.22	1.00	1	8	4.45
Albert Town ...	5.11	1.58	11	11	...
Low River ...	3.55	2.06	2	6	...
Troy ...	0.55	0.30	29	2	7.11
Pepper ...	...	...	...	...	...
Fontabelle, Trel. ...	...	.	...	...	...
Windsor Pen, Trel. ...	1.78	0.60	1	8	6.65
Wallingford ...	3.06	1.10	17	8	...
Balaclava Police Station ...	3.24	1.51	16	7	4.71
Siloah ...	5.62	1.10	30	12	...
Santa Cruz ...	5.38	1.73	2	9	5.27
Appleton Estate ...	4.97	1.12	30	11	7.24
Maggotty ...	8.23	2.00	20	12	8.15
Spring Vale ...	6.00	1.60	1	9	8.33
Ipswich, Ry. St. ...	6.20	1.66	20	18	...
Springfield, St. Eliz. ...	...	...	...	...	...
Catadupa Rly. Station ...	...	...	...	...	..
Kempshot ...	2.05	0.37	17	14	6.21
Hazelymph ...	8.67	1.42	31	17	9.18
Kew Park ...	12.38	2.41	5	20	10.33
Copse ...	0.34	1.20	21	11	7.43
Petersville ...	6.57	2.16	20	17	7.17
Darliston ...	9.79	1.15	25	20	11.87
Whithorn ...	12.41	2.80	8	23	10.73
Fort William ...	...	...	...	...	...
Great Valley, Han. ...	5.65	2.75	21	8	10.24
Brownsville ...	7.06	3.08	21	15	11.32
George's Plain ...	...	...	...	...	...
Fontabelle, Westmd. ...	7.49	1.68	23	19	9.00
Belleisle ...	6.38	1.25	22	15	9.00
Morgan's Bridge ...	10.21	1.68	27	24	11.16
Glasgow Estate ...	14.28	4.07	8	25	12.93
King's Vale Police St. ...	10.67	2.40	8	20	10.74
Means ...	5.71	...	...	...	...

SOUTHERN DIVISION.	JULY, 1911. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	2.29	0.42	15	17	3.23
East Prospect ...	2.16	0.74	3	14	...
Morant Bay ...	2.91	0.55	22	14	5.80
Easington ...	0.80	0.21	7	9	6.22
Bull Bay ...	0.00	0.00	...	...	2.46
Bellevue ..	...	...	...	...	...
Gordon Town ...	0.33	0.25	30	2	2.62
Hope Gardens ...	1.55	0.68	31	4	2.72
King's House Gardens ..	0.82	0.36	2	6	2.84
Halfway Tree ...	0.00	0.00	...	..	..
Lunatic Asylum ...	0.37	0.37	31	1	1.51
Kingston S. Camp Road ...	0.29	0.25	31	4	...
" Parade Gard. ...	0.30	0.30	31	1	...
" P. W. Office ..	0.35	0.35	31	1	1.81
Plumb Point L. H. ...	0.38	0.22	7	2	1.94
Ballast Ground ...	0.00	0.00	..	...	...
Quarantine Station ...	0.00	0.00	...	...	...
Spanish Town ...	0.18	0.15	30	2	2.48
Hog Hole Pen ...	0.70	0.42	31	3	2.67
Hartlands ...	0.10	0.10	27	1	...
Old Harbour ...	0.65	0.45	30	2	2.57
May Pen ...	0.98	0.48	4	8	3.72
Hillside Estate ...	...	...	...	...	...
Amity Hall ...	...	...	...	...	...
Money Musk ...	...	...	...	...	..
Dunkley's Vere ...	0.28	0.18	13	3	2.32
Dry River " ...	0.60	0.50	11	2	...
Caswell Hill " ...	0.35	0.35	11	1	...
Denbigh ...	...	...	...	...	...
Toll Gate ...	1.64	1.07	30	4	..
Woodleigh ...	0.00	0.00	...	...	...
New Yarmouth ...	0.43	0.22	11	3	2.42
Exeter, Vere ..	...	...	...	...	...
Rhymesbury ...	0.18	0.15	13	3	2.28
Springfield, Clarendon ...	...	...	...	..	...
Milk River ...	..	...	....	...	...
Clarendon Pk. Ry. St. ...	...	...	...	...	...
Victoria Town ...	2.85	2.85	30	1	2.61
Stone's Hope ...	1.14	0.60	30	3	4.30
Newport, Manchester ...	2.80	1.83	30	5	3.73
Great Valley, Man. ...	5.71	5.25	30	7	3.27
Alligator Pond ...	5.33	5.33	30	1	2.43
Long Hill ...	...	...	...	...	...
Unity, Malvern ...	...	...	...	..	...
Bethlehem, St. Eliz. ...	1.16	0.90	11	5	3.04
Torrington ...	2.35	1 17	11	3	2.64
Pedro Plains ...	1.15	1.15	31	1	1.48
Black River ...	3.07	0.85	25	9	4.82
Font Hill ...	4.05	1.50	31	11	5.73
Mount Edgecombe ...	5.48	0.90	27	15	6.93
Bluefields ...	5.94	1.20	23	14	...
Sweet River ...	5.84	1.25	8	16	7.52
Windsor, Sav.-la-mar ...	5.69	1.65	14	18	6.91
Orchard, Sav.-la-mar ...	5.58	1.27	14	15	...
Sav.-la-mar ...	7.20	1.00	14	20	5.84
Retreat ...	5.24	1.30	3	10	7.65
White Hall ...	6.41	1.42	3	18	...
Negril Point L.H. ...	2.99	0.48	3	15	5.90
Negril Pol. Sta. ...	5.81	0.85	3	16	...
Means ...	2.20	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

—	July. 1911.	July. Average.
	In.	In.
North-Eastern Division ...	3.09	6.28
Northern ...	1.90	3.21
West-Central ...	5.71	7.85
Southern ...	2.20	3.59
The Island ...	3.22	5.23

The heaviest rainfall 15.06 inches was recorded at Moore Town. At several places in the Northern and Southern divisions no rain fell this month.

Rainfall at Grand Cayman. July, 1911.	Total Fall.	Greatest fall. Amount.	Greatest fall. Date.	No. of days on which 0.01 or more fell.
East End ...				
Bodden Town ...				
George Town ...	...	...		...

Shocks of Earthquake in July, 1911.

Date.	Mean time.	Intensity.	Notes: where felt, etc,
	hr.		
6	11 p.m.	I	Mt. Holstein: N.E. .008.
8	1.34 p.m.	I	Mt. Holstein and Strawberry Hill, .007
8	4.15 p.m.	I	Mt. Holstein S.E. .005.
13	4.30 p.m.	I	Mt. Holstein and the Thomasfield district E. & W. .006 & S.E. & N.W. .005
15	3.30 a.m.	I	Mt. Holstein S.E. .003.
20	10.00 p.m.	I	Halfway Tree.

Weather Office,
Halfway Tree P.O

C. MAXWELL HALL,
for Govt. Meteorologist.

J H Slack

UNIVERSITY OF ILLINOIS

No. 395

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

AUGUST, 1911.

METEOROLOGICAL RESULTS.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part cirro-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

Stations.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House .	8	29.956	29.919	81.5	84.4	86.0	77.8	8.2	87.5	8*	71.0	26	16.5
Kingston .	24	29.935	29.889	78.1	86.0	91.7	73.9	17.8	95.0	15	69.9	29	25.1
Negril Point Light House	33	29.947	29.907	79.6	84.2	89.5	72.3	17.2	91.5	2*	70.0	7	21.5
Castleton Gardens .	496	...	...	69.0	85.0	90.0	61.0	29.0	95.0	6*	59.0	26	36.0
Hope Gardens† .	668	29.938	29.867	80.0	88.0	91.0	73.0	18	94.0	7*	68.0	28	26.0
Stony Hill Reformatory .	1,400	...	...	71.6	80.1	84.7	67.6	17.1	90.0	6*	64.0	29	26.0
Hill Gardens .	4,907	25.291	25.274	64.0	68.0	75.0	58.0	17.0	78.0	7*	56.0	29	22.0

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: (direction from and miles per hour.)				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House .	8	77.5	87.8	78.6	82.9	3.52	...	E	12.4	E	16.0	1.2	2.3	3.0	1.0	2.2	3.0
Kingston .	24	68.5	73	72.8	65	1.48	225.9	N	3.7	SE	20.1	0.4	0.2	3.3	3.4	1.9	1.5
Negril Point Light House‡	33	70.4	73	73.4	70	5.17	187.7	E by N	7.1	SSE	10.2	0.3	0.1	5.5	3.4	5.9	0.0
Castleton Gardens .	496	67.0	93	72.0	65	3.26	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens .	668	67.0	64	68.0	51	2.24	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory .	1,400	67.4	86	68.1	66	5.94	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens	4,907	58.0	81	63.0	82	1.84	...	...	...	...	...	-	...	...	...	...	—

* and on other days.

† Hope Gardens. Bar. read at 9 a.m. and 3 p.m.

‡ Negril Point Light House. Wind 11 p.m. E.N.E. 7.0.

RAINFALL FOR AUGUST, 1911.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to Weather Report, No. 256A. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	AUGUST, 1911.				
	Total Fall.	Greatest fall in 24 hours. Amount	Greatest fall in 24 hours. Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	...	...	...	...	..
Spring Valley .	10.42	3.02	29	15	...
Bath ...	6.35	4.00	28	3	10.01
Boston ...	9.35	5.00	28	5	8.15
Moore Town ...	20.17	...	...	...	15.54
Port Antonio ...	15.27	9.77	28	13	10.76
Fellowship ...	16.84	9.18	28	15	14.28
Windsor, Portland ...	14.40	8.20	28	7	...
Johnson River Bridge ...	6.49	4.00	28	9	10.02
Shrewsbury ...	...	...	...	...	...
Cedar Valley, St. Thos. ...	...	...	...	...	...
Moy Hall, St. Thos. ...	3.80	2.50	28	3	7.96
Hill Gardens ...	1.84	1.22	28	6	7.92
Buff Bay ...	3.09	1.09	28	10	5.70
Vinery ...	2.87	1.25	28	5	...
Windsor Castle, Port. ...	2.81	1.15	28	4	...
Greenvale, Portland ...	3.48	1.40	15	11	..
Mt. Holstein ...	1.60	1.13	28	9	6.69
Irish Town ...	2.09	1.29	28	3	...
Hardware Gap ...	3.90	...	...	...	6.73
Stony Hill Reform. ...	5.94	2.10	25	14	9.44
Castleton Gardens ...	3.26	1.18	28	6	10.03
Lawrence Tavern ...	4.20	1.40	8	6	8.58
Carew Castle ...	...	...	...	...	..
Agualta Vale ...	2.28	0.76	28	6	...
Water Valley ...	1.48	0.53	28	6	4.40
Albany, Ry. Station ..	...	...	...	...	...
Platfield ...	3.61	2.10	9	6	...
Richmond, St. Mary ...	1.72	0.85	15	8	4.97
Hampstead, St. Mary ...	1.93	0.75	15	6	...
Kendal, St. Mary ...	...	...	...	...	...
Troja ...	2.57	1.50	9	3	...
Gayle ...	0.60	0.25	15	5	4.76
Rio Hoe ...	1.19	0.75	13	5	6.27
Unity Valley ...	1.40	0.43	15	8	6.49
Moneague ...	1.36	0.36	6	5	6.03
Union Hill ...	...	...	...	...	...
Claremont ...	0.50	0.33	13	3	5.53
Albion, St. Ann ...	1.34	0.63	27	8	6.10
Averham Park ...	0.68	0.43	13	3	4.86
Means ...	4.89	..	...	...	...

NORTHERN DIVISION.	AUGUST, 1911.				
	Total fall.	Greatest fall in 24 hours. Amount.	Greatest fall in 24 hours. Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	2.65	1.21	10	9	4.72
Ocho Rios ...	0.25	0.25	...	1	2.72
Bogue, Ocho Rios ...	..	...	...	...	...
Arthurs Seat ...	...	...	...	...	...
Drax Hall ...	0.74	0.30	4	3	3.59
Liberty Hill ...	0.44	0.17	13	4	...
St. Ann's Bay ...	0.78	0.32	29	10	2.65
Seville ...	0.59	0.33	29	5	3.55
Richmond Estate ...	0.27	0.23	29	2	3.36
Llandovery ...	0.20	0.20	29	1	2.86
Southfield, St. Ann ...	...	...	...	...	...
Ballintoy ...	...	...	...	...	...
Brown's Town ...	1.06	0.39	9	5	3.98
Hyde Park ...	...	...	...	...	...
Dry Harbour ...	...	...	...	...	...
Chewmagna, St. Ann ...	2.67	1.63	27	7	5.24
Home Castle ...	0.65	0.35	9	2	3.61
Richmond Pen ...	6.32	1.97	2	5	4.89
Mahogany Hall ...	2.97	1.10	9	11	5.85
Barnstaple ...	2.00	0.75	9	5	...
Brampton Bryan ...	0.73	0.45	27	2	3.36
Bryan Castle ...	0.61	0.61	27	1	2.88
Braco ...	0.50	0.50	27	1	2.89
Arcadia ...	0.31	0.31	27	1	3.54
Lancaster ...	0.50	0.50	27	1	3.21
Harmony Hall ...	0.34	0.31	27	2	2.57
Vale Royal ...	0.65	0.40	27	2	4.54
Colchis Pen ...	3.23	1.04	27	9	5.32
Swanswick ...	1.75	0.55	14	7	...
Hyde ...	...	...	...	...	...
Georgia ...	0.50	0.43	27	2	3.6
Long Pond ...	1.47	0.40	14	6	3.59
Hyde Hall ...	1.23	0.57	14	4	4.00
Steelfield ...	0.77	0.24	27	4	3.63
Etingdon ...	0.41	0.12	29	6	2.51
Oxford ...	0.53	0.20	14	4	3.01
Cambridge ...	0.65	0.40	14	3	3.78
Lottery ...	0.95	1.45	14	3	3.56
Falmouth ...	0.12	0.08	1	2	2.77
Florence Hall ...	0.26	0.18	21	3	...
Holland Pen ...	...	...	..	...	...
Orange Valley ...	0.39	...	...	...	3.18
Kent ...	0.10	0.10	1	1	3.04
Gales Valley ...	2.04	0.60	1	6	5.27
Canaan ...	...	...	...	...	...
Content ...	0.30	0.30	7	1	4.13
Bellfield ...	0.40	0.22	7	2	...
Hampden ...	...	...	...	...	...
Moor Park ...	2.30	0.88	9	7	...
Success ...	0.00	0.00	...	0	2.12
Guilsbro ...	3.20	1.10	2	8	5.88
Cinnamon Hill ...	0.00	0.00	...	0	2.18
Rose Hall ...	0.00	0.00	..	0	1.91
Running Gut ...	0.00	0.00	...	0	2.59
Spring ...	0.00	0.00	...	0	3.90
Montego Bay ...	3.74	1.90	9	4	5.63
Fairfield, St. James ...	...	...	...	...	...
King Gate ...	...	...	...	...	...
Round Hill ...	...	...	...	...	...
Sandy Bay ...	4.58	2.50	10	6	6.79
Haughton Court .	5.64	2.50	9	10	...
Lucea ...	6.17	2.95	9	11	6.86
Westfield ...	10.02	2.10	30	22	...

CENTRAL SUB-DIVISION.	AUGUST, 1911. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Rio Magno ...	4.03	1.29	25	10	....
Headworks, Rio Cobre ...	2.66	0.82	28	8	5.75
Linstead ...	7.82	1.80	12	8	8.22
Berkshire Hall ...	2.14	0.64	25	6	...
Point Hill ...	6.44	1.78	11	12	12.37
Brown's Hall .	6.03	2.20	27	8	8.16
Worthy Park ...	...	...	...	...	...
Crofts Hill ...	3.64	1.36	27	12	...
Chapelton ...	1.21	0.35	10	6	6.81
Mears ...	...	...	...	...	...
Danks Works ...	1.86	0.80	27	7	5.84
Savoy House ...	2.38	1.50	27	7	6.04
Trout Hall ...	4.20	0.77	28	17	...
Cave Valley ..	5.50	1.40	7	12	7.25
Greenock ...	6.10	1.65	7	12	...
Means ...	1.74	...	...	...	...
WEST-CENTRAL DIVISION.					
Whitney ...	4.05	1.45	25	7	...
Mocho, Clarendon ...	..	...	...	...	...
Baillieston ...	8.37	1.88	25	14	6.45
Brokenhurst ...	3.10	1.30	27	6	...
Christiana ...	7.84	1.87	11	18	6.44
Chudleigh ...	3.92	0.85	18	19	...
Spooter's Hill ...	5.74	1.58	18	13	...
Spitzbergen ...	4.51	0.89	25	17	...
Kendal, Manchester ...	4.78	1.20	2	12	6.80
Marshalls Pen ...	4.29	1.20	12	11	8.38
Mandeville ...	5.25	1.86	12	14	8.03
Carlton, Mandeville ...	4.37	1.58	12	12	...
Fairfield, Manchester ...	1.84	0.66	3	11	5.37
Ulster Spring ...	..	...	..	...	..
Albert Town ...	8.31	1.68	7	18	...
Low River ...	4.14	1.10	27	7	...
Troy ...	13.81	3.20	18	11	10.07
Pepper ...	...	...	...	...	...
Fontabelle, Trel. ...	...	.	...	...	...
Windsor Pen, Trel. ...	2.86	0.56	10	12	6.77
Wallingford ...	8.41	3.13	27	18	...
Balaclava Police Station ...	5.71	1.75	27	12	7.02
Siloah ...	10.18	2.00	12	13	...
Santa Cruz ...	3.69	1.24	26	8	8.62
Appleton Estate ...	8.27	2.51	27	13	10.88
Maggotty ...	11.50	2.40	27	18	10.65
Spring Vale ...	5.69	1.11	13	11	11.61
Ipswich, Ry. St. ...	9.53	2.24	27	22	...
Springfield, St. Eliz. ...	...	...	...	...	...
Catadupa Rly. Station ...	...	...	...	...	.
Kempshot ...	5.83	1.51	13	14	8.61
Hazelymph ...	8.90	1.60	22	18	10.91
Kew Park ...	8.94	1.31	2	19	11.65
Copse ...	6.14	1.50	22	12	10.96
Petersville ...	7.76	1.76	14	19	10.56
Darliston ...	15.01	2.48	27	23	14.62
Whithorn ...	8.66	1.55	27	20	11.74
Great Valley, Han. ...	13.35	3.75	9	13	11.79
Brownsville ...	13.85	2.70	9	19	12.29
Fort William ...	...	...	...	...	...
George's Plain ...	...	...	...	...	...
Fontabelle, Westmd. ...	8.11	2.49	27	20	11.23
Belleisle ...	8.39	3.00	27	13	10.45
Morgan's Bridge ...	8.88	2.80	27	20	11.70
Glasgow Estate ...	10.14	1.29	18*	19	13.93
King's Vale Police St. ...	10.77	2.64	9	16	10.76
Means ...	7.92	...	...	...	...

*and 30th.

SOUTHERN DIVISION.	AUUST, 1911. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	3.52	2.16	29	14	5.31
East Prospect ...	6.70	3.37	28	7	...
Morant Bay ...	7.66	3.83	28	8	5.68
Easington ...	6.47	4.10	28	5	6.17
Bull Bay ...	0.25	...	...	...	2.82
Bellevue ...	...	...	...	...	...
Gordon Town ...	1.57	1.07	28	2	4.47
Hope Gardens ...	2.24	1.20	28	7	5.29
King's House Gardens ...	2.98	1.30	28	10	5.67
Halfway Tree ...	2.85	1.80	30	2	3.54
Lunatic Asylum ...	1.39	0.96	28	6	2.59
Kingston S. Camp Road ...	1.71	1.12	28	7	...
" Parade Gard. ...	1.68	1.15	28	5	...
" P. W. Office ..	1.48	1.15	28	7	3.88
Plumb Point L. H. ...	1.45	1.23	28	4	3.50
Ballast Ground ...	1.10	1.00	28	2	...
Quarantine Station ...	1.30	1.20	28	2	...
Spanish Town ...	1.66	0.80	12	3	4.04
Hog Hole Pen ...	1.56	0.73	28	4	4.53
Hartlands ...	0.70	0.62	28	2	...
Old Harbour ...	0.50	0.50	28	1	4.66
May Pen ...	1.23	0.49	28	6	4.79
Hillside Estate ...	...	...	...	...	...
Amity Hall ...	0.50	0.50	28	1	...
Money Musk ...	...	...	...	...	..
Dunkley's Vere ...	1.60	0.80	28	3	4.25
Dry River " ...	0.81	0.42	28	2	...
Caswell Hill " ...	0.65	0.40	28	2	...
Denbigh ...	...	...	...	...	...
Toll Gate ...	2.12	0.99	27	5	..
Woodleigh ...	0.70	0.40	28	2	...
New Yarmouth ...	1.35	0.70	27	2	3.86
Exeter, Vere ...	0.52	0.40	28	2	...
Rhymesbury ...	1.22	1.07	28	3	4.52
Springfield, Clarendon ...	...	...	...	..	...
Milk River ...	...	...	...	...	...
Clarendon Pk. Ry. St. ...	2.68	1.33	27	4	...
Victoria Town ...	1.82	0.57	28	2	4.95
Stone's Hope ...	1.41	0.98	25	2	5.99
Newport, Manchester ...	2.14	0.95	27	7	5.39
Great Valley, Man. ...	1.75	1.15	27	5	4.49
Alligator Pond ...	0.35	0.25	27	2	3.08
Long Hill ...	...	...	...	...	...
Unity, Malvern ...	...	...	...	...	...
Bethlehem, St. Eliz. ...	4.75	2.60	23	9	4.99
Torrington ...	2.18	1.00	23	4	4.55
Pedro Plains ...	0.72	0.37	23	5	2.53
Black River ...	3.78	1.01	26	7	5.95
Font Hill ...	4.05	1.15	25	11	6.06
Mount Edgecombe ...	5.27	1.00	27	16	8.19
Bluefields ...	7.11	1.72	9	14	...
Sweet River ...	6.37	1.85	27	16	8.75
Windsor, Sav.-la-mar ...	5.29	2.50	27	14	7.38
Orchard, Sav.-la-mar ...	6.61	2.55	27	12	...
Sav.-la-mar ...	5.55	1.90	27	14	7.49
Retreat ...	7.59	2.04	2	14	8.70
White Hall ...	7.41	1.75	2	13	...
Negril Point L.H. ...	5.17	1.61	27	13	6.76
Negril Pol. Sta. ...	7.99	1.50	27	13	...
Means ...	2.92	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

—	August.	
	1911.	Average.
	In.	In.
North-Eastern Division ...	4.89	7.71
Northern ...	1.74	4.83
West-Central ...	7.92	9.88
Southern ...	2.92	5.14
The Island ...	4.37	6.89

The heaviest rainfall. 20.17 inches, was recorded at Moore Town, North-Eastern division. No rain fell at several places in the Northern division.

Rainfall at Grand Cayman. August, 1911.	Total Fall.	Greatest fall.		No. of days on which 0.01 or more fell.
		Amount.	Date.	
East End ...	...	...	...	...
Bodden Town ...	2.39	1.00	18	8
George Town ...	3.49	1.17	30	14

Shocks of Earthquake in August, 1911.

Date.	Mean time.	Intensity.	Notes: where felt, etc.
No earthquakes this month.			

Corrigendum. In W. R. No. 394. for July, p. 3, Sweet River, for 5.84 read 7.84.

Weather Office,
Halfway Tree P.O

MAXWELL HALL,
Govt. Meteorologist.

No. 396

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

SEPTEMBER, 1911.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House .	8	29.923	29.891	81.7	85.2	86.9	77.3	9.6	88.5	5	71.0	19	17.5
Kingston .	24	29.911	29.862	78.4	85.6	92.2	74.3	17.9	95.2	21	71.3	12	23.9
Negril Point Light House	33	29.921	29.882	79.9	82.9	88.9	72.8	16.1	91.4	11	70.6	3	20.8
Castleton Gardens .	496	...	...	71.0	84.0	91.0	62.0	29.0	95.0	20*	59.0	12*	36.0
Hope Gardens† .	668	29.919	29.843	77.0	87.0	89.0	71.0	18.0	93.0	14	68.0	11	25.0
Stony Hill Reformatory .	1,400	...	...	72.5	80.3	79.1	67.8	11.3	90.0	14	65.0	12*	25.0
Hill Gardens .	4,907	25.276	25.250	65.0	68.0	74.0	60.0	14.0	77.0	4	58.0	6*	19.0

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: (direction from and miles per hour.)				Amount of Cloud, Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House .	8	76.5	85	77.8	79	4.40	...	E	12.0	E	14.2	1.1	2.7	2.8	0.9	2.4	3.0
Kingston .	24	70.6	77	75.0	71	0.86	195.7	N	4.2	SE	16.5	0.6	0.9	2.9	3.0	2.2	2.3
Negril Point Light House‡	33	72.1	77	72.9	72	8.14	187.4	ENE	6.9	ENE	11.1	0.7	0.0	5.4	4.1	3.6	0.8
Castleton Gardens .	496	67.0	88	74.0	73	6.44	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens .	668	70.0	79	72.0	76	2.44	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory .	1,400	67.3	83	69.9	70	5.40	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens .	4,907	56.0	72	63.0	85	3.61	...	...	...	...	..		...	...	...	..	...

* and on other days.

† Hope Gardens. Bar. read at 9 a.m. and 3 p.m.

‡ Negril Point Light House. Wind 11 p.m. N.E. 7.0.

RAINFALL FOR SEPTEMBER, 1911.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to Weather Report, No. 256A. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	SEPTEMBER, 1911.				
	Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	...	...	...	...	..
Spring Valley .	5.56	0.80	8	16	...
Bath ...	7.00	1.25	19	11	12.03
Boston ...	2.10	1.30	18	2	11.04
Moore Town ...	15.70	...	...	...	14.21
Port Antonio ...	10.49	0.93	8	9	10.43
Fellowship ...	13.80	8.25	8	16	12.93
Windsor, Portland ...	17.15	11.50	8	8	...
Johnson River Bridge ...	2.68	0.45	26	9	11.48
Shrewsbury ...	...	...	...	...	...
Cedar Valley, St. Thos. ...	2.03	1.00	17	7	13.40
Moy Hall, St. Thos. ...	3.71	2.10	20	5	10.92
Hill Gardens ...	3.61	2.34	17	8	9.84
Buff Bay ...	2.80	1.40	8	7	4.94
Vinery ...	1.07	0.58	8	3	...
Windsor Castle, Port. ...	0.65	0.35	24	3	...
Greenvale, Portland ...	1.59	0.45	17	12	..
Mt. Holstein ...	3.09	0.71	17	13	9.02
Irish Town ...	...	...	...	...	...
Hardware Gap ...	...	...	...	...	...
Stony Hill Reform. ...	5.40	1 50	29	16	9.82
Castleton Gardens ...	6.44	2.30	20	12	11.21
Lawrence Tavern ...	...	...	...	...	..
Carew Castle ...	...	...	...	...	..
Agualta Vale ...	1.71	0.68	28	7	...
Water Valley ...	1.78	0.56	27	6	5.32
Albany, Ry. Station ..	...	...	...	...	...
Platfield ...	5.74	1.63	17	9	...
Richmond, St. Mary ..	1.85	1.08	18	8	5.59
Hampstead, St. Mary ...	3.35	0.97	18	8	...
Kendal, St. Mary ...	...	...	...	...	...
Troja ...	...	...	...	...	...
Gayle ...	3.51	2.00	17	6	6.10
Rio Hoe ...	1.42	0.69	5	8	6.18
Unity Valley ...	4.03	1.44	5	15	8.20
Moneague ...	3.65	0.87	17	8	7.14
Union Hill ...	...	...	...	...	...
Claremont ...	4.73	3.42	18	4	5.31
Albion, St. Ann ...	4.27	1.06	5	16	6.98
Averham Park ...	3.08	2.15	18	6	4.83
Means ...	4.87	..	...	...	...

NORTHERN DIVISION.	SEPTEMBER, 1911.				
	Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	2.94	0.98	15	7	3.88
Ocho Rios ...	2.15	1.20	16	4	3.93
Bogue, Ocho Rios ...	..	...	...	...	...
Arthurs Seat ...	...	...	...	...	...
Drax Hall ...	0.95	0.25	1	7	3.98
Liberty Hill ...	1.17	0.70	16	4	...
St. Ann's Bay ...	1.63	0.42	1	9	3.31
Seville ...	1.16	0.37	24	6	3.60
Richmond Estate ...	1.48	0.48	16	7	...
Llandovery ...	2.87	1.02	16	4	3.72
Southfield, St. Ann ...	...	...	...	...	...
Ballintoy ...	...	...	...	...	...
Brown's Town ...	1.07	0.60	2	6	5.30
Hyde Park ...	...	...	...	...	...
Dry Harbour ...	1.98	0.89	20	4	3.07
Chewmagna, St. Ann ...	6.72	1.85	5	11	7.41
Home Castle ...	1.32	0.60	20	4	4.56
Richmond Pen ...	6.79	1.67	5	7	5.88
Mahogany Hall ...	2.91	0.59	29	6	6.97
Barnstaple ...	1.95	1.20	16	6	...
Brampton Bryan ...	1.52	0.94	16	3	3.91
Bryan Castle ..	2.17	1.64	20	3	3.44
Braco ...	2.10	1.15	20	4	3.31
Arcadia ...	2.20	1.90	20	3	4.02
Lancaster ...	1.75	0.85	16	5	...
Harmony Hall ...	2.09	1.05	16	3	...
Vale Royal ...	1.86	1.30	20	3	4.64
Colchis Pen ...	3.52	0.75	29	12	5.23
Swanswick ...	1.40	0.90	16	4	...
Hyde ...	...	...	...	...	...
Georgia ...	1.24	0.73	20	5	3.92
Long Pond ...	1.44	0.52	20	8	3.71
Hyde Hall ...	2.23	1.00	20	9	5.20
Steelfield ...	1.60	0.90	20	5	4.25
Etingdon ...	2.43	0.90	20	6	3.13
Oxford ...	2.63	1.28	20	5	3.79
Cambridge ...	2.76	1.20	20	6	4.42
Lottery ...	3.15	1.20	20	4	4.38
Falmouth ...	2.01	1.88	16	5	3.46
Florence Hall ...	2.63	1.61	16	4	...
Holland Pen ...	2.75	1.10	16	4	...
Orange Valley ...	...	...	...	...	...
Kent ...	1.94	0:55	24	6	4.30
Gales Valley ...	2.90	0.65	29	7	7.00
Canaan ...	...	...	...	...	...
Content ...	3.05	1.00	18	7	4.88
Bellfield ...	1.74	0.84	24	5	...
Hampden ...	...	...	...	...	...
Moor Park ...	3.93	1.83	18	11	...
Success ...	1.40	0.90	24	4	3.72
Guilsbro ...	8.30	1.80	18	10	7.91
Cinnamon Hill ...	1.43	0.45	18	6	4.13
Rose Hall ...	1.60	0.45	24	7	3.62
Running Gut ...	1.39	0.45	16	5	3.99
Spring ...	0.63	0.28	24	4	...
Montego Bay ...	2.44	1.97	24	4	6.91
Fairfield, St. James ...	...	...	...	...	...
King Gate ...	...	...	...	...	...
Round Hill ...	...	...	...	...	...
Sandy Bay ...	5.84	2.02	29	12	7.76
Haughton Court .	3.73	0.66	29	12	...
Lucea ...	4.02	0.97	9	11	7.68
Westfield ...	11.06	1.49	5	19	...

CENTRAL SUB-DIVISION.	SEPTEMBER, 1911. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Rio Magno ...	2.15	0.49	24	11	...
Headworks, Rio Cobre ...	2.26	1.08	7	10	6.54
Linstead ...	7.68	1.76	3	11	8.01
Berkshire Hall ...	3.20	1.15	23	11	...
Point Hill ...	8.98	2.95	1	13	11.54
Brown's Hall .	5.67	2.00	1	11	10.95
Worthy Park ...	...	...	...	...	...
Crofts Hill ...	7.75	1.62	21	13	...
Chapelton ...	2.76	0.65	15	12	9.37
Mears ...	...	...	...	...	...
Danks Works ...	4.88	1.30	5	13	9.35
Savoy House ...	6.48	2.00	5	14	9.37
Trout Hall ...	9.95	3.30	5	15	...
Cave Valley ..	6.25	...	..	12	...
Greenock ...	5.92	...	...	12	...
Means ...	3.95	...	...	...	...
WEST-CENTRAL DIVISION.					
Whitney ...	4.85	1.20	2	9	...
Mocho, Clarendon ...	4.62	0.95	24	11	...
Baillieston ...	7.57	0.55	25	20	...
Brokenhurst ...	2.16	0.80	7	5	9.33
Christiana ...	8.29	0.87	4	19	9.97
Chudleigh ...	1.15	1.81	15	19	...
Shooter's Hill ...	8.03	1.54	23	18	...
Spitzbergen ...	8.17	1.60	8	18	...
Kendal, Manchester ...	8.85	2.32	5	18	9.53
Marshalls Pen ...	6.75	3.52	5	9	8.79
Mandeville ...	7.08	2.07	5	15	10.04
Carlton, Mandeville ...	5.77	1.80	5	11	...
Fairfield, Manchester ...	4.12	1.93	5	12	7.80
Ulster Spring ...	6.97	1.15	20	13	8.44
Albert Town ...	9.42	1.89	18	15	...
Low River ...	6.97	0.97	5	17	...
Troy ...	21.25	3.00	11	22	13.77
Pepper ...	...	...	...	...	...
Fontabelle, Trel. ...	...	.	...	...	...
Windsor Pen, Trel. ...	7.62	1.80	26	14	9.06
Wallingford ...	19.65	3.56	5	20	...
Balaclava Police Station *	9.86	3.08	5	17	10.31
Siloah ...	17.23	4.70	20	19	...
Santa Cruz ...	8.32	2.72	16	12	10.38
Appleton Estate ...	16.69	2.72	5	23	11.50
Maggotty ...	13.03	1.25	21	23	11.84
Spring Vale ...	6.85	1.67	17	12	10.61
Ipswich, Ry. St. ...	13.23	1.54	30	30	...
Springfield, St. Eliz. ...	...	...	...	...	...
Catadupa Rly. Station ...	19.23	2.04	3	22	.
Kempshot ...	5.57	1.34	18	15	9.64
Hazelymph ...	9.76	1.14	23	18	10.39
Kew Park ...	14.44	2.64	5	21	12.06
Copse ...	7.08	1.63	5	16	10.72
Petersville ...	13.57	2.14	7	25	...
Darliston ...	18.32	3.14	20	24	13.79
Whithorn ...	10.95	2.55	12	22	11.91
Great Valley, Han. ...	...	...	...	...	...
Brownsville ...	...	...	..	...	...
Fort William ...	...	...	...	...	...
George's Plain ...	...	...	...	...	...
Fontabelle, Westmd. ...	13.76	2.32	20	21	10.90
Belleisle ...	16.04	4.16	20	20	10.70
Morgan's Bridge ...	11.03	1.61	6	22	12.18
Glasgow Estate ...	12.24	3.33	11	17	14.38
King's Vale Police St. ...	12.71	2.00	2	18	11.44
Means ...	10.11	...	...	...	...

SOUTHERN DIVISION.	SEPTEMBER, 1911. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	4.40	2.20	15	16	7.31
East Prospect ...	1.62	0.44	22	12	...
Morant Bay ...	2.82	0.65	22	11	8.41
Easington ...	1.32	0.15	26	6	8.73
Bull Bay ...	...	...	...	...	...
Bellevue ...	...	...	...	...	...
Gordon Town ...	...	...	...	...	...
Hope Gardens ...	2.44	1.40	13	10	7.04
King's House Gardens ...	2.72	0.90	5	9	5.03
Halfway Tree ...	...	...	...	...	...
Lunatic Asylum ...	2.46	1.37	7	2	4.72
Kingston S. Camp Road ...	1.88	1.15	7	4	...
" Parade Gard. ...	1.05	0.50	10	5	...
" P. W. Office ...	0.86	0.50	7	3	4.18
Plumb Point L. H. ...	0.18	0.15	15	2	3.81
Ballast Ground ...	...	...	...	...	...
Quarantine Station ...	0.20	0.20	7	1	...
Spanish Town ...	0.70	0.48	21	5	5.30
Hog Hole Pen ...	1.87	1.25	21	4	6.33
Hartlands ...	0.89	0.48	16	3	...
Old Harbour ...	1.30	1.05	21	3	6.45
May Pen ...	2.29	0.80	7	6	7.89
Hillside Estate ...	...	...	...	...	...
Amity Hall ...	3.17	1.80	15	4	...
Money Musk ...	...	...	...	...	...
Dunkley's Vere ...	1.20	0.80	16	3	6.52
Dry River " ...	0.83	0.34	16	4	...
Caswell Hill " ...	1.02	0.42	16	3	...
Denbigh ...	...	...	...	...	...
Toll Gate ...	1.33	0.61	15	7	..
Woodleigh ...	1.50	0.85	7	3	...
New Yarmouth ...	2.09	2.01	16	2	5.73
Exeter, Vere ...	0.82	0.35	16	4	...
Rhymesbury ...	1.89	0.75	15	4	5.96
Springfield, Clarendon ...	...	...	...	..	...
Milk River ...	...	...	...	...	...
Clarendon Pk. Ry. St. ...	...	...	...	...	...
Victoria Town ...	0.68	0.43	7	2	7.48
Stone's Hope ...	0.62	0.40	16	3	8.30
Newport, Manchester ...	1.04	0.34	8	7	7.49
Great Valley, Man. ...	1.34	0.82	21	6	6.63
Alligator Pond ...	5.90	5.33	30	3	4.98
Long Hill ...	...	...	...	...	...
Unity, Malvern ...	...	...	...	...	...
Bethlehem, St. Eliz. ...	7.08	2.25	5	10	6.78
Torrington ...	1.93	0 70	4	4	6.42
Pedro Plains ...	1.86	0.87	5	5	4.90
Black River ...	4.16	1.35	29	5	5.75
Font Hill ...	4.30	0.75	2	14	7.11
Mount Edgecombe ...	13.55	2.29	7	27	8.39
Bluefields ...	9.77	1.58	4	17	...
Sweet River ...	7.78	1.40	12	15	...
Windsor, Sav.-la-mar ...	10.41	1.82	12	15	7.26
Orchard, Sav.-la-mar ...	9.98	2.18	12	11	...
Sav.-la-mar ...	8.04	1.27	2	15	6.96
Retreat ...	9.75	2.82	29	13	8.28
White Hall ...	11.55	3.95	30	16	...
Negril Point L.H. ...	8.14	2.23	7	17	7.51
Negril Pol. Sta. ...	6.38	1.11	7	14	...
Means ...	3.90	...	...	...	...

*This rainfall is small as compared with those of the surrounding places. It was confirmed however by the fall of 8.06 in . at the Balaclava Rly. Station.

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

—	September.	
	1911.	Average.
	In.	In.
North-Eastern Division ...	4.87	8.68
Northern ...	3.95	5.70
West-Central ...	10.11	10.78
Southern ...	3.90	6.49
The Island ...	5.71	7.91

The heaviest rainfall, 21.25 inches, was recorded at Troy in the West Central division; the smallest 0.18 inch fell at Plumb Point L. H.

Rainfall at Grand Cayman. September, 1911.	Total Fall.	Greatest fall.		No. of days on which 0.01 or more fell.
		Amount.	Date.	
East End ...	...	...	...	...
Bodden Town ...	...	...	...	...
George Town ...	...	...	...	...

Shocks of Earthquake in September, 1911.

Date.	Mean time.	Intensity.	Notes: where felt, etc.
	hr. min.		
22	3 00 p.m.	I	Siloah, very slight E.N.E

Weather Office,
Halfway Tree P.O

MAXWELL HALL,
Govt. Meteorologist.

No. 397.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

OCTOBER, 1911.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House	8	29.878	29.862	79.8	84.3	86.4	75.5	10.9	87.8	25	66.5	23	21.3
Kingston	24	29.892	29.849	77.0	83.5	91.7	73.5	18.2	94.9	2	71.9	9	23.0
Negril Point Light House	33	29.899	29.848	79.3	84.8	87.9	72.4	15.5	90.3	2*	69.8	2	20.5
Castleton Gardens	496	...	...	69.5	81.0	91.0	61.5	29.5	94.0	7	58.0	22*	36.0
Hope Gardens †	668	29.904	29.833	75.0	79.0	87.0	70.3	16.7	92.0	2	69.0	6*	23.0
Stony Hill Reformatory	1,400	...	...	71.7	76.8	83.8	67.3	16.5	88.0	15*	65.0	1*	23.0
Hill Gardens	4,907	25.254	25.207	65.0	65.5	69.0	58	11.0	74.0	15	56.0	25	18.0

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: (direction from and miles per hour.)				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House	8	75.2	86	75.2	76	4.43	...	E	9.9	E	11.5	0.8	2.5	2.5	0.7	2.4	2.9
Kingston	24	70.9	82	73.8	73	1.63	152.8	NNE	4.2	SE	10.7	1.0	0.2	3.0	3.9	3.0	1.4
Castleton Gardens ‡	496	67.7	83	72.6	67	6.59	175.4	E by	6.2	by E Var	8.6	0.3	0.7	2.9	0.9	5.9	1.3
Hope Gardens	668	70.7	87	72 2	74	8.97	...	...	...	...	...	...	...	...	...	...	..
Stony Hill Reformatory	1,400	69.3	92	71.0	79	9.80	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens	4,907	57.7	78	55.0	82	18.23	...	...	...	...	...	...	...	...	...	...	...
					70	14.43	...	...	...	...	...	...	...	...	...	...	...

* and on other days.

† Hope Gardens. Bar. read at 9 a.m. and 3 p.m.

‡ Negril Point Light House. Wind 11 p.m. E. by N. 6.3.

RAINFALL FOR OCTOBER, 1911.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to Weather Report, No. 256A. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	OCTOBER, 1911.				
	Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	6.31	2.00	27	12	..
Spring Valley .	8.49	1.90	27	14	...
Bath ...	10.03	2.00	28	11	18.37
Boston ...	3.50	1.50	27	3	13.11
Moore Town ...	11.50	...	...	...	21.93
Port Antonio ...	4.66	0.90	27	9	15.16
Fellowship ...	6.65	1.90	27	10	18.37
Windsor, Portland ...	8.00	3.40	27	5	...
Johnson River Bridge ...	9.78	2.98	27	13	13.85
Shrewsbury ...	5.98	1.20	4	13	...
Cedar Valley, St. Thos. ...	14.23	4.32	7	12	15.05
Moy Hall, St. Thos. ...	13.33	3.00	8	14	19.93
Hill Gardens ...	14.43	2.32	10	22	...
Buff Bay ...	2.58	2.17	4	6	11.76
Vinery ...	2.70	1.00	4	5	...
Windsor Castle, Port. ...	5.88	2.42	10	5	...
Greenvale, Portland ...	6.47	1.03	29	17	..
Mt. Holstein ...	11.88	3.33	6	20	12.72
Irish Town ...	13.02	2.00	10	13	...
Hardware Gap ...	13.46	...	...	...	...
Stony Hill Reform. ...	18.23	5 40	6	25	14.38
Castleton Gardens ...	8.97	2.08	6	17	..
Lawrence Tavern ...	9.35	1.75	6	7	...
Carew Castle ..	...	...	...	...	...
Agualta Vale ...	2.64	0.85	10	10	...
Water Valley ...	1.60	0.62	6	7	7.93
Albany, Ry. Station ..	..	...	...	...	...
Platfield ...	3.97	1.50	5	14	9.83
Richmond, St. Mary ...	2.39	0.82	...	...	...
Hampstead, St. Mary ...	2.04	0.90	6	5	...
Kendal, St. Mary ...	...	...	...	...	...
Troja ...	5.55	1.25	29	7	...
Gayle ...	3.75	0.83	24	11	10.04
Rio Hoe ...	3.61	1.18	12	12	...
Unity Valley ...	5.75	1.96	24	15	9.50
Moneague ...	4.63	1.80	24	11	9.94
Union Hill ...	...	...	...	...	...
Claremont ...	8.15	1.66	29	9	8.41
Albion, St. Ann ...	5.49	1.40	12	14	9.02
Averham Park ...	6.43	1.54	25	10	9.35
Means ...	7.71	..	...	...	..

NORTHERN DIVISION.	OCTOBER, 1911.				
	Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
...	1.54	0.98	28	5	8.86
Ocho Rios ...	5.24	1.05	27	9	4.84
Bogue, Ocho Rios ...	3.69	1.15	27	6	...
Arthurs Seat ...	...	...	...	...	...
Drax Hall ...	3.22	1.10	25	9	7.58
Liberty Hill ...	4.65	1.43	25	9	...
St. Ann's Bay ...	3.52	0.90	29	11	7.22
Seville ...	4.06	1.30	27	9	...
Richmond Estate ...	4.51	2.53	27	9	...
Llandovery ...	5.37	2.30	29	5	...
Southfield, St. Ann ...	...	...	...	...	...
Ballintoy ...	...	...	...	...	...
Brown's Town ...	8.22	1.54	13	17	8.98
Hyde Park ...	...	...	...	...	...
Dry Harbour ...	...	...	...	...	...
Chewmagna, St. Ann ...	7.83	1.00	12	16	8.35
Home Castle ...	2.85	1.20	4	6	7.14
Richmond Pen ...	9.72	2.75	12	12	7.78
Mahogany Hall ...	6.21	1.36	27	15	8.56
Barnstaple ...	4.80	1.50	27	9	...
Brampton Bryan ...	5.16	1.97	27	7	...
Bryan Castle ...	4.35	2.37	27	6	...
Braco ...	4.10	2.80	27	7	...
Arcadia ...	4.17	2.50	27	7	6.24
Lancaster ...	5.85	4.05	28	5	5.96
Harmony Hall ...	5.54	3.40	28	7	5.42
Vale Royal ...	7.15	3.35	27	8	6.69
Colchis Pen ...	...	...	..	...	...
Swanswick ...	5.60	2.10	27	11	...
Hyde ...	...	...	...	...	...
Georgia ...	...	...	...	...	...
Long Pond ...	7.06	2.53	24	9	...
Hyde Hall ...	...	...	..	...	...
Steelfield ...	6.06	1.63	28	9	...
Etingdon ...	...	...	...	...	...
Oxford ...	5.37	2.15	24	9	...
Cambridge ...	4.62	1.30	28	8	...
Lottery ...	5.10	1.70	25	9	6.34
Falmouth ...	4.07	1.42	24	6	5.77
Florence Hall ...	3.89	2.17	24	6	...
Holland Pen ...	...	...	...	...	...
Orange Valley ...	...	...	...	...	...
Kent ...	3.23	0.90	31	7	...
Gales Valley ...	5.93	0.87	29	11	7.29
Canaan ...	...	...	...	...	...
Content ...	5.15	1.80	31	6	...
Bellfield ...	7.15	1.85	31	10	...
Hampden ...	...	...	...	...	...
Moor Park ...	9.07	3.20	27	12	...
Success ...	4.25	1.15	31	8	...
Guilsbro ...	...	...	...	...	...
Cinnamon Hill ...	4.45	1.15	31	8	...
Rose Hall ...	5.00	1.13	31	9	...
Running Gut ...	7.53	1.65	27	9	...
Spring ...	5.08	1.10	27	9	...
Montego Bay ...	4.43	1.10	27	14	...
Fairfield, St. James ...	...	...	...	..	...
King Gate ...	...	...	...	...	...
Round Hill ...	4.60	1.25	18	10	...
Sandy Bay ...	6.33	1.36	13	10	9.04
Haughton Court .	4.33	1.24	2	10	...
Lucea ...	5.72	1.[illegible]	[illegible]	[illegible]	[illegible]

CENTRAL SUB-DIVISION.	OCTOBER, 1911. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
		In.			In.
Headworks, Rio Cobre ...	0.42	1.12	6	17	9.79
Linstead ...	7.04	1.10	25	11	10.32
Berkshire Hall ...	3.48	0.68	31	11	...
Point Hill ...	11.56	2.46	7	15	16.83
Brown's Hall ...	15.32	3.10	7	13	11.62
Worthy Park ...	..	...	..	...	...
Crofts Hill ...	6.73	2.07	23	17	...
Chapelton ...	13.46	2.07	10	18	11.81
Mears ...	...	...	...	...	...
Danks Works ...	7.90	2.40	7	19	12.41
Savoy House ...	13.55	1.90	7	20	9.96
Trout Hall ...	14.22	2.95	27	17	...
Cave Valley ..	11.15	2.50	16	...	9.58
Greenock ...	11.82	2.50	16	...	...
Means ...	6.28	...	...	...	...
WEST-CENTRAL DIVISION.					
Whitney ...	8.75	2.00	27	9	...
Mocho, Clarendon ...	12.10	3.06	3	20	...
Baillieston ...	7.34	1.60	23	17	10.70
Brokenhurst ...	6.84	1.54	3	13	...
Christiana ...	7.84	1.26	30	18	12.34
Chudleigh ...	15.74	2.02	9	22	...
Shooter's Hill ...	12.02	3.00	23	24	...
Spitzbergen ...	13.25	2.68	23	22	...
Kendal, Manchester ...	13.26	2.90	23	22	14.96
Marshalls Pen ...	13.65	3.25	6	19	12.81
Mandeville ...	12.88	2.81	8	23	16.56
Carlton, Mandeville ...	11.10	2.63	8	22	...
Fairfield, Manchester ...	14.52	2.23	22	22	10.60
Ulster Spring ...	13.45	2.72	12	15	10.19
Albert Town ...	30.08	3.56	29	23	...
Low River ...	14.11	2.35	28	18	..
Troy ...	25.26	3.00	24	25	...
Pepper ...	...	...	...	...	...
Fontabelle, Trel. ...	...	...	...	...	...
Windsor Pen, Trel. ...	7.24	1.75	13	16	9.49
Wallingford ...	15.11	3.21	2	24	...
Balaclava Police Station ...	11.52	2.03	23	19	13.38
Siloah ...	21.12	2.50	2	19	...
Santa Cruz ...	15.80	1.63	6	23	12.01
Appleton Estate ...	16.90	2.11	2	20	14.04
Maggotty ...	17.23	2.20	25	19	15.30
Spring Vale ...	10.86	2.57	2	13	10.42
Ipswich, Ry. St. ...	19.85	2.61	9	28	...
Springfield, St. Eliz. ...	...	.	...	...	...
Catadupa Rly. Station ...	24.82	3.90	13	27	...
Kempshot ...	9.54	2.25	27	15	9.60
Hazelymph ...	11.48	3.52	27	16	10.66
Kew Park ...	19.97	3.00	27	25	11.68
Copse ...	9.33	2.00	27	13	...
Petersville ...	7.99	2.20	26	24	...
Darliston ...	17.31	1.72	6	26	15.71
Whithorn ...	13.92	2.00	8	25	11.93
Fort William ...	...	...	...	...	...
George's Plain ...	...	...	...	...	...
Fontabelle, Westm. ...	...	...	...	...	...
Belleisle ...	8.19	2.23	5	15	9.53
Morgan's Bridge ...	12.31	2.50	9	21	12.94
Glasgow Estate ...	9.85	1.62	7	18	...
King's Vale Police St. ...	10.89	1.90	6	15	10.25
Means ...	12.83	...	...	...	...

SOUTHERN DIVISION.	OCTOBER, 1911. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
East Prospect ...	7.71	1.52	31	12	11.71
Morant Bay ...	6.47	1.52	26	9	14.22
Easington ...	4.87	1.65	9	9	14.22
Bull Bay ...	3.30	...	...	...	...
Bellevue ...	...	...	...	..	...
Gordon Town ...	12.63	1.78	29	15	...
Hope Gardens ...	14.43	2.32	10	22	...
King's House Gardens ...	4.72	0.74	10	15	10.79
Halfway Tree ...	9.15	1.08	8	11	...
Lunatic Asylum ...	2.33	1.23	27	9	7.93
Kingston S. Camp Road ...	2.35	1.20	27	8	...
" Parade Gard. ...	1.82	0.80	...	4	...
" P. W. Office ...	1.63	0.70	27	7	8.15
Plumb Point L. H. ...	0.97	0.40	27	6	7.67
Ballast Ground ...	1.35	0.50	4	4	...
Quarantine Station ...	1.48	0.73	26	4	...
Spanish Town ...	2.65	0.62	20	12	9.59
Hog Hole Pen ...	2.45	0.59	27	9	10.09
Hartlands ...	5.09	2.50	26	5	...
Old Harbour ...	3.95	0.90	3	9	11.07
May Pen ...	7.77	1.78	8	14	...
Hillside Estate ...	...	...	...	...	..
Amity Hall ...	...	...	...	...	...
Money Musk ...	...	...	...	...	...
Dunkley's Vere ...	6.90	1.90	8	13	7.01
Dry River " ...	5.25	1.09	26	9	...
Caswell Hill " ...	6.15	2.25	26	7	...
Denbigh ...	...	...	...	...	...
Toll Gate ...	10.50	2.69	27	16	...
Woodleigh ...	...	..	...	...	...
New Yarmouth ...	6.03	2.45	8	11	9.20
Exeter, Vere ...	4.36	1.60	8	7	...
Rhymesbury ...	8.21	1.69	9	15	8.49
Springfield, Clarendon ...	...	...	...	...	...
Milk River ...	5.49	1.73	26	10	...
Clarendon Pk. Ry. St. ...	...	...	...	...	...
Victoria Town ...	7.65	1.50	9	13	...
Stone's Hope* ...	7.93	4.11	30	11	13.35
Newport, Manchester ...	5.64	2.40	30	13	...
Great Valley, Man. ...	6.80	1.31	10	15	11.37
Alligator Pond ...	4.80	2.00	27	9	...
Lititz ...	7.14	2.09	30	12	...
Long Hill ...	...	...	...	...	...
Unity, Malvern ...	...	...	...	...	...
Bethlehem, St. Eliz. ...	10.14	1.82	9	20	11.36
Torrington ...	8.56	1.50	5	14	...
Pedro Plains ...	6.45	1.56	30	12	6.60
Black River ...	7.40	1.70	26	16	8.74
Font Hill ...	3.80	1.10	2	9	9.95
Mount Edgecombe ...	4.19	0.61	2	16	10.04
Bluefields ...	...	...	...	...	...
Sweet River ...	11.36	2.30	27	17	10.06
Windsor, Sav.-la-mar ...	10.32	3.95	27	13	8.40
Orchard, Sav.-la-mar ...	10.36	3.43	27	12	...
Sav.-la-mar ...	9.42	3.50	27	18	8.99
Retreat† ...	10.46	3.40	1	16	10.96
White Hall ...	12.36	3.74	1	12	...
Negril Point L.H. ...	6.59	2.35	27	14	8.37
Negril Pol. Sta. ...	5.47	1.10	27	17	...
Means ...	6.28	...	...	...	4.97

*Gauge overflowed on 30th.
† " " " 1st.

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

	October.	
	1911.	Average.
	In.	In.
North-Eastern Division		
Northern ...	7.71	13.22
West-Central ...	6.28	7.46
Southern ...	6.28	10.28
The Island ...	8.28	10.74

The heaviest rainfall 30.08 inches was recorded at Albert Town in the West-central division. The smallest 0.97 fell at Plumb Point L. H.

Rainfall at Grand Cayman. October, 1911.

	Total Fall.	Greatest fall. Amount.	Greatest fall. Date.	No. of days on which 0.01 or more fell.
East End ...	...	...	..	...
Bodden Town ...	...	...	...	...
George Town ...	...	...	...	...

Shocks of Earthquake in Oct...

Date.	Mean time.	Intensity.	Notes: where felt, etc.
	hr. min.		
6	10 00 a.m.	I	Kingston S.E. ·018

Weather Office,
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

No. 398.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

NOVEMBER, 1911.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only Thermometers are exposed in Stevenson's Screens ; their readings have been corrected for instrumental errors

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part fracto-stratus : the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House .	8	29.929	29.872	81.1	83.1	84.7	76.2	8.5	86.5	5*	71.0	13	15.5
Kingston .	24	29.908	29.850	75.4	84.1	89.4	72.9	16.5	92.7	7	70.5	28	22.2
Negril Point Light House	33	29.912	29.856	77.5	83.6	87.4	72.3	15.1	90.2	2*	68.4	28	21.8
Castleton Gardens .	496	...	...	69.0	83.0	88.0	61.0	27.0	93.0	19	58.0	28	35.0
Hope Gardens† .	668	29.927	29.827	74.0	83.0	85.0	70.0	15.0	89.0	29	67.0	27	22.0
Stony Hill Reformatory .	1,400	...	...	69.7	79.4	83.3	66.9	16.4	89.0	28	63.0	8*	26.0
Hill Gardens .	4,907	25.270	25.223	62.0	65.5	69.0	58.0	11.0	73.0	7	56.0	11	17.0

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: (direction from and miles per hour.)				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House .	8	75.6	82	76.9	84	7.68	...	E	14.6	E	14.6	1.6	2.8	2.6	1.0	2.6	2.7
Kingston .	24	70.8	86	72.9	69	1.78	168.3	NNE	4.5	SE	12.2	2.4	1.7	0.6	2.9	2.0	1.5
Negril Point Light House‡	33	71.0	80	72.6	70	2.88	217.5	E	7.6	E	12.7	1.6	0.4	3.6	3.3	3.1	0.9
Castleton Gardens .	496	67.2	70	93.3	65	3.77	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens .	668	70.5	78	90.0	84	1.96	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory .	1,400	68.3	96	75.1	86	2.34	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens .	4,907	59.3	61	86.8	87	5.18	...	...	...	...	...	.	...	...	...	...	...

* and on other days.

† Hope Gardens. Bar. read at 9 a.m. and 3 p.m.

‡ Negril Point Light House. Wind 1! p.m. E. by N. 7.7.

RAINFALL FOR NOVEMBER, 1911.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to Weather Report, No. 256A. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	NOVEMBER, 1911.				
	Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	7.33	1.50	11	21	14.23
Spring Valley .	12.92	1.15	11	21	...
Bath ...	20.15	2.83	20	16	12.95
Boston ...	15.00	4.00	22	10	13.51
Moore Town ...	18.24	...	...	...	34.15
Port Antonio ...	13.81	1.78	29	25	16.39
Fellowship ...	14.99	1.88	14	28	27.17
Windsor, Portland ...	12.85	2.00	10	16	...
Johnson River Bridge ...	11.99	1.75	21	20	6.70
Shrewsbury ...	...	..	.	...	...
Cedar Valley, St. Thos. ...	14.19	3.45	22	17	13.09
Moy Hall, St. Thos. ...	15.06	4.85	23	18	13.14
Hill Gardens ...	5.18	1.62	23	16	14.71
Buff Bay ...	6.67	1.86	10	14	16.12
Vinery ...	6.26	1.90	10	13	...
Windsor Castle, Port. ...	6.39	1.80	10	5	...
Greenvale, Portland ...	6.50	1.15	10	19	..
Mt. Holstein ...	4.25	1.32	10	20	26.11
Irish Town ..	1.90	1.00	22	3	...
Hardware Gap ...	2.90	...	...	...	13.02
Stony Hill Reform. ...	2.34	1.10	12	11	7.14
Castleton Gardens ...	3.77	1.13	10	13	14.42
Lawrence Tavern ...	4.30	2.10	11	4	8.33
Carew Castle ...	...	...	...	...	...
Agualta Vale ...	3.28	0.58	13	14	...
Water Valley ...	3.16	0.67	5	13	10.01
Albany, Ry. Station ..	...	...	...	...	...
Platfield ...	2.37	0.89	22	8	...
Richmond, St. Mary ..	4.41	1.17	22	17	11.65
Hampstead, St. Mary ...	6.33	1.24	10	14	...
Kendal, St. Mary ...	...	...	...	...	...
Troja ...	4.91	2.00	19	6	...
Gayle ...	2.42	1.29	22	9	10.24
Rio Hoe ...	5.71	1.18	10	16	11.71
Unity Valley ...	5.33	1.09	22	16	9.01
Moneague ...	4.36	1.00	10	9	9.90
Union Hill ...	...	...	...	...	...
Claremont ...	2.17	0.81	4	9	10.46
Albion, St. Ann ...	1.47	0.65	30	7	11.85
Averham Park ...	3.63	0.85	30	11	9.74
Means ...	7.71	..	...	...	..

NORTHERN DIVISION.	NOVEMBER, 1911.				
	Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	7.36	1.23	3	18	10.69
Ocho Rios ...	4.20	0.70	4	11	7.73
Bogue, Ocho Rios ...	5.89	1.92	18	6	...
Arthurs Seat ...	...	...	...	...	...
Drax Hall ...	2.60	1.05	4	9	10.04
Liberty Hill ...	2.65	0.77	5	8	...
St. Ann's Bay ...	2.17	0.81	4	9	9.00
Seville ...	2.19	0.72	4	7	9.80
Richmond Estate ...	2.67	1.50	5	8	9.42
Llandovery ...	3.94	2.80	3	4	9.16
Southfield, St. Ann ...	...	...	...	...	...
Ballintoy ...	...	...	...	...	...
Brown's Town ...	1.87	0.55	4	10	10.58
Hyde Park ...	...	...	...	...	...
Dry Harbour ...	1.82	0.60	4	5	7.69
Chewmagna, St. Ann ...	1.47	0.50	14	7	7.35
Home Castle ...	2.55	1.20	4	6	6.91
Richmond Pen ...	...	...	..	...	...
Mahogany Hall ...	2.54	9.86	15	7	7.14
Barnstaple ...	2.25	0.55	13	6	...
Brampton Bryan ...	1.50	0.40	15	6	5.72
Bryan Castle ...	2.10	0.45	24	10	6.40
Braco ...	1.65	0.45	4	10	5.88
Arcadia ...	1.89	0.45	5	8	6.47
Lancaster ...	1.89	0.50	4	8	6.34
Harmony Hall ...	1.23	0.50	4	7	5.75
Vale Royal ...	1.21	0.45	4	6	7.30
Colchis Pen ...	0.87	0.28	30	6	5.81
Swanswick ...	1.20	0.40	10	6	...
Hyde ...	...	...	...	...	...
Georgia ...	...	...	...	...	...
Long Pond ...	1.07	0.31	4	6	5.52
Hyde Hall ...	...	...	..	...	...
Steelfield ...	1.17	0.35	4	6	5.90
Etingdon ...	...	...	...	...	...
Oxford ...	1.26	0.50	22	7	5.88
Cambridge ...	0.90	0.70	22	3	5.90
Lottery ...	3.25	1.60	22	7	5.38
Falmouth ...	2.15	0.75	22	7	4.92
Florence Hall ...	3.03	1.53	22	6	...
Holland Pen ...	...	...	...	...	...
Orange Valley ...	...	...	...	...	...
Kent ...	2.52	0.75	5	8	4.91
Gales Valley ...	3.29	1.00	14	6	4.84
Canaan ...	...	...	...	...	...
Content ...	2.00	0.80	22	6	4.68
Bellfield ...	2.27	0.53	24	6	...
Hampden ...	...	...	...	...	...
Moor Park ...	2.97	0.60	23	12	...
Success ...	1.90	0.80	10	5	4.52
Guilsbro ...	7.40	1 30	22	18	5.78
Cinnamon Hill ...	2.93	0.70	10	7	4.64
Rose Hall ...	2.09	0.75	10	7	4.50
Running Gut ...	3.59	1.10	20	7	4.57
Spring ...	2.39	0.73	10	7	3.99
Montego Bay ...	3.20	0.90	20	6	4.30
Fairfield, St. James ...	...	...	...	...	...
King Gate ...	...	...	...	...	...
Round Hill ...	5.75	1.50	21	8	3.55
Sandy Bay ...	4.96	1.25	24	11	5.71
Haughton Court .	...	...	...	...	...
Lucea ...	5.59	0.88	14	14	5.71
Westfield ...	3.00	0.61	13	14	...

CENTRAL SUB-DIVISION.	NOVEMBER, 1911. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Rio Magno ...	4.45	1.57	22	13	...
Headworks, Rio Cobre ...	4.06	1.00	22	11	4.74
Linstead ...	11.43	6.10	22	12	5.92
Berkshire Hall ...	4.50	1.50	22	13	...
Point Hill ...	17.03	9.30	22	12	10.16
Brown's Hall .	14.93	5.60	21	8	8.13
Worthy Park ...	5.83	192	22	9	4.18
Crofts Hill ...	4.07	1.00	22	11	...
Chapelton ...	3.94	1.40	21	11	4.49
Mears ...	...	...	...	...	...
Danks Works ...	4.14	1.22	6	12	4.99
Savoy House ...	4.18	1.30	5	13	5.62
Trout Hall ...	2.35	0.68	23	10	...
Cave Valley ..	6.90	2.30	25	15	4.75
Greenock ...	7.34	2.45	25	15	...
Means ...	3.67	...	...	...	...
WEST-CENTRAL DIVISION.					
Whitney ...	9.80	2.60	22	17	...
Mocho, Clarendon ...	8.20	2.31	22	15	...
Baillieston ...	...	...	...	...	...
Brokenhurst ...	16.72	6.05	28	13	6.21
Christiana ...	1.63	0.52	12	8	6.82
Chudleigh ...	1.81	0.50	23	15	...
Shooter's Hill ...	5.01	1.43	23	16	...
Spitzbergen ...	3.14	1.30	23	14	...
Kendal, Manchester ...	5.71	1.73	23	12	5.99
Marshalls Pen ...	...	...	...	...	...
Mandeville ...	9.40	4.30	23	14	6.29
Carlton, Mandeville ...	8.42	3.85	23	14	...
Fairfield, Manchester ...	2.89	0.66	14	17	6.46
Ulster Spring ...	1.14	0.37	30	4	6.49
Albert Town ...	1.32	0.60	30	4	...
Low River ...	0.66	0.30	30	3	..
Troy ...	0.19	0.14	4	2	6.46
Pepper ...	...	...	...	...	...
Fontabelle, Trel. ...	...	...	...	...	...
Windsor Pen, Trel. ...	1.60	0.55	25	8	6.03
Wallingford ...	3.17	1.14	5	15	...
Balaclava Police Station ...	2.17	0.77	5	7	5.91
Siloah ...	3.40	0.90	5	6	...
Santa Cruz ...	...	...	...	...	...
Appleton Estate ...	2.53	1.22	5	8	6.04
Maggotty ...	2.64	0.72	3	9	6.08
Spring Vale ...	1.94	0.54	11	5	6.08
Ipswich, Ry. St. ...	4.44	1.86	26	11	...
Springfield, St. Eliz. ...	...	.	...	...	...
Catadupa Rly. Station ...	...	...	...	...	...
Kempshot ...	3.65	0.83	15	14	6.18
Hazelymph ...	2.60	1.35	1	6	6.15
Kew Park ...	2.39	0.73	8	9	5.52
Copse ...	1.56	0.25	16	9	...
Petersville ...	2.62	0.60	13	10	6.49
Darliston ...	4.63	0.85	2	14	7.48
Whithorn ...	...	...	...	...	...
Great Valley, Han. ...	...	...	...	...	...
Brownsville ...	6.42	1.29	11	15	5.48
Fort William ...	...	...	...	...	...
George's Plain ...	...	...	...	...	...
Fontabelle, Westm. ...	3.90	1.50	29	11	3.02
Belleisle ...	3.56	1.00	29	9	3.36
Morgan's Bridge ...	...	...	...	...	...
Glasgow Estate ...	5.33	1.40	12	17	4.69
King's Vale Police St. ...	7.88	1.72	13	13	5.46
Means ...	4.04	...	...	...	...

SOUTHERN DIVISION.	NOVEMBER, 1911. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	7.68	1.89	13	18	6.90
East Prospect ...	6.82	1.53	14	18	...
Morant Bay ...	5.78	1.80	14	16	6.44
Easington ...	6.02	1.35	14	10	5.35
Bull Bay ...	1.25	...	...	...	3.71
Bellevue ...	...	...	...	..	...
Gordon Town ...	1.86	0.90	22	7	9.57
Hope Gardens ...	1.96	1.00	12	10	6.35
King's House Gardens ...	2.32	1.44	12	9	3.31
Halfway Tree ...	3.99	1.20	12	6	...
Lunatic Asylum ...	1.61	0.48	21	11	3.57
Kingston S. Camp Road ...	1.50	0.40	21	10	...
" Parade Gard. ...	1.33	0.50	22	4	...
" P. W. Office ..	1.78	0.79	22	8	3.00
Plumb Point L. H. ...	3.47	1.06	21	10	2.32
Ballast Ground ...	2.55	1.50	14	2	...
Quarantine Station ...	1.86	0.52	14	7	...
Spanish Town ...	2.11	0.55	21	11	3.56
Hog Hole Pen ...	4.56	1.31	22	7	4.34
Hartlands ...	3.40	0.96	24	5	...
Old Harbour ...	7.16	4.32	21	8	3.60
May Pen ...	7.51	2.48	21	10	4.51
Hillside Estate ...	...	...	...	...	..
Amity Hall ...	7.74	1.20	21	15	...
Money Musk ...	...	...	...	...	...
Dunkley's Vere ...	7.22	3.30	21	11	3.92
Dry River " ...	6.74	2.65	21	12	...
Caswell Hill " ...	7.06	2.00	21	13	...
Denbigh ...	...	...	...	...	...
Toll Gate ...	11.50	3.78	22	13	...
Woodleigh ...	8.30	3.50	22	11	...
New Yarmouth ...	9.46	1.93	21	10	2.66
Exeter, Vere ...	7.63	1.00	21	13	...
Rhymesbury ...	7.19	2.56	21	11	3.58
Springfield, Clarendon ...	...	...	...	...	...
Milk River ...	...	...	...	...	...
Clarendon Pk. Ry. St. ...	6.53	3.70	22	6	...
Victoria Town ...	11.33	4.41	21	10	4.53
Stone's Hope* ...	7.83	2.75	21	9	5.01
Newport, Manchester ...	7.47	1.60	23	13	6.29
Great Valley, Man. ...	8.22	2.58	21	9	4.24
Alligator Pond ...	2.86	0.89	21	6	2.97
Lititz ...	2.25	0.72	15	8	...
Long Hill ...	...	...	...	...	...
Unity, Malvern ...	...	...	...	...	...
Bethlehem, St. Eliz. ...	4.00	0.85	2	11	7.32
Torrington ...	4.21	1.25	5	7	6.99
Pedro Plains ...	3.03	0.95	3	9	...
Black River ...	2.42	1.20	5	8	4.53
Font Hill ...	1.25	0.30	13	7	5.32
Mount Edgecombe ...	3.05	0.81	23	12	5.00
Bluefields ...	11.67	2.92	16	10	...
Sweet River ...	3.85	1.65	24	8	3.80
Windsor, Sav.-la-mar ...	2.21	0.74	23	10	3.64
Orchard, Sav.-la-mar ...	2.73	0.85	24	8	...
Sav.-la-mar	...	...	...	...	...
Retreat ...	6.37	1.75	16	13	4.79
White Hall ...	4.60	1.27	16	15	...
Negril Point L.H. ...	2.88	0.78	22	14	3.21
Negril Pol. Sta. ...	5.38	1.11	7	14	...
Means ...	4.26	...	...	...	..

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

—	October, 1911.	October, Average.
	In.	In.
North-Eastern Division ...	7.71	13.22
Northern ...	3.67	5.91
West-Central ...	4.04	5.74
Southern ...	4.26	4.56
The Island ...	4.92	7.44

The heaviest rainfall 20.15 inches was recorded at Bath in the N.E. division; and the smallest 0.19 inch at Troy in the West-central.

Rainfall at Grand Cayman. November, 1911.	Total Fall.	Greatest fall. Amount.	Greatest fall. Date.	No. of days on which 0.01 or more fell.
East End ...	1.56	0.77	1	7
Bodden Town ...	...	...	...	...
George Town ...	6.01	2.76	29	14

Shocks of Earthquake in November, 1911.

Date.	Mean time.	Intensity.	Notes: where felt, etc.
2	hr. min. 10 45 p.m.	II	Mt. Holstein, NE .013; sound. Kingston N. ·002

The Recent Hurricane Season. No storm or marked barometric depressions passed near Jamaica during the hurricane season of 1911.

Magnetic Variation. The variation of the compass at the Kempshot Observatory Nov. 5th to 11th was 2° 28′ east.

Weather Office,
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

551.6
J A

No.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

DECEMBER, 1911.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House	8	29.942	29.896	78.2	80.6	82.2	74.3	7.9	84.0	1*	62.5	12	21.5
Kingston	24	29.915	29.866	71.8	82.2	87.6	70.0	17.6	91.8	18	65.5	12	26.3
Negril Point Light House	33	29.931	29.871	73.2	82.6	84.9	69.8	15.1	88.5	16	65.6	24	22.9
Castleton Gardens	496	...	...	68.0	81.0	84.0	64.0	20.0	89.0	13*	52.0	13	37.0
Hope Gardens†	668	29.931	29.879	70.0	79.0	83.0	66.0	17.0	87.0	1*	63.0	10	24.0
Stony Hill Reformatory	1,400	...	...	68.2	77.3	79.4	64.4	15.0	85.0	23*	60.0	13	25.0
Hill Gardens	4,907	25.251	25.208	61.0	63.0	66.0	54.0	12.0	70.0	15*	50.0	10*	20.0

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: (direction from and miles per hour.)				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House	8	74.0	87	74.9	83	5.08	...	...	19.4	...	20.4	1.6	2.6	2.4	1.4	2.6	2.3
Kingston	24	67.4	86	71.2	70	1.11	171.8	NNE	5.2	SE	10.8	2.6	0.7	0.3	2.7	2.1	0.1
Negril Point Light House‡	33	67.2	81	69.7	65	2.98	240.6	ENE	8.9	Var.	13.6	1.9	1.4	0.4	2.2	2.9	0.7
Castleton Gardens	496	...	...	...	...	24.70	...	...	...	...	...	...	...	...	...	...	..
Hope Gardens	668	...	...	...	...	3.36	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory	1,400	64.0	86	68.5	74	7.05	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens	4,907	...	...	...	...	25.28	...	...	...	...	...	.	...	...	...	...	–

* and on other days.

† Hope Gardens. Bar. read at 9 a.m. and 3 p.m.

‡ Negril Point Light House. Wind 11 p.m. E. N. E. 9.0

...ER, 1911.

...e first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to Weather Report, No. 256A. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

North-Eastern Division.	November, 1911.					December, 1911.					
	Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.	Northern Division.	Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.		In.	In.			In.
Manchioneal ...	...	...	...	...	...	Port Maria ...	12.77	3.94	4	20	10.69
Spring Valley .	14.86	1.64	28	19	...	Ocho Rios ...	11.13	3.65	3	18	7.73
Bath ...	20.57	3.27	9	20	12.95	Bogue, Ocho Rios ...	14.15	4.15	2	9	...
Boston ...	7.48	3.50	5	6	13.51	Arthurs Seat ...	...	...	...	...	...
Moore Town ...	38.65	...	...	...	34.15	Drax Hall ...	9.80	3.80	4	16	10.04
Port Antonio ...	20.81	9.93	4	18	16.39	Liberty Hill ...	16.15	6.60	4	14	...
Fellowship ...	33.69	9.00	4	28	27.19	St. Ann's Bay ...	10.39	4.18	4	18	9.00
Windsor, Portland ...	41.85	14.00	5	26	...	Seville ...	10.52	4.17	4	11	7.77
Johnson River Bridge ...	9.00	1.50	6	19	6.70	Richmond Estate ...	12.84	6.00	4	18	9.42
Shrewsbury ...	...	..	...	...	...	Llandovery ...	13.72	5.38	4	11	9.16
Cedar Valley, St. Thos. ...	9.74	1.94	6	18	13.09	Southfield, St. Ann ...	...	...	...	...	...
Moy Hall, St. Thos. ...	11.06	2.87	6	16	13.14	Ballintoy ...	...	...	...	...	...
Hill Gardens ...	...	...	...	...	...	Brown's Town ...	12.93	4.90	2	19	4.27
Buff Bay ...	17.81	7.09	4	22	16.12	Hyde Park ...	...	...	...	...	...
Vinery ...	20.03	5.75	5	16	...	Dry Harbour ...	7.72	3.13	4	9	7.69
Windsor Castle, Port. ...	13.12	5.71	4	10	...	Chewmagna, St. Ann ...	5.78	1.85	2	16	6.91
Greenvale, Portland ...	38.21	9.40	5	29	..	Home Castle ...	10.80	3.60	2	13	7.35
Mt. Holstein ...	42.62	11.96	5	24	26.11	Richmond Pen ...	...	...	...	...	...
Irish Town ...	5.27	1.45	5	5	...	Mahogany Hall ...	9.65	3.77	2	16	6.74
Hardware Gap ...	18.06	...	...	...	6.86	Barnstaple ...	9.90	4.00	2	9	...
Stony Hill Reform. ...	7.05	2.40	5	19	7.14	Brampton Bryan ...	9.91	3.14	2	12	5.78
Castleton Gardens ...	...	..	...	...	...	Bryan Castle ...	11.90	4.50	4	14	6.54
Lawrence Tavern ...	10.65	2.71	29	7	4.48	Braco ...	10.95	3.75	2	13	5.80
Carew Castle ...	...	...	...	...	...	Arcadia ...	10.25	3.45	2	13	6.47
Agualta Vale ...	13.30	4.80	4	19	...	Lancaster ...	10.89	4.16	4	13	6.34
Water Valley ...	12.21	2.50	4	20	10.01	Harmony Hall ...	12.83	6.40	4	14	5.75
Albany, Ry. Station ..	...	...	...	...	...	Vale Royal ...	12.79	4.60	4	9	7.30
Platfield ...	14.42	4.10	3	11	...	Colchis Pen ...	12.17	2.48	4	13	5.81
Richmond, St. Mary ...	13.98	3.64	5	19	11.65	Swanswick ...	10.15	3.00	2	13	...
Hampstead, St. Mary ...	16.83	4.84	4	21	...	Hyde ...	...	...	...	...	...
Kendal, St. Mary ...	...	...	...	...	...	Georgia ...	12.27	6.60	4	11	6.59
Troja ...	16.31	5.00	5	7	...	Long Pond ...	10.34	2.75	2	10	4.37
Gayle ...	14.07	4.25	4	23	11.71	Hyde Hall ...	9.50	3.00	4	13	5.35
Rio Hoe ...	12.23	2.80	4	15	9.40	Steelfield ...	7.94	3.10	4	11	6.36
Unity Valley ...	9.62	2.27	2	15	9.01	Etingdon ...	8.67	2.95	4	10	4.71
Moneague ...	11.04	3.30	4	13	9.90	Oxford ...	10.97	3.48	2	9	6.20
Union Hill ...	...	...	...	...	...	Cambridge ...	11.40	3.00	4	17	6.16
Caremont ...	16.37	3.40	2	14	10.46	Lottery ...	13.70	5.25	4	13	5.38
Albion, St. Ann ...	17.02	4.23	2	18	11.85	Falmouth ...	7.48	3.31	4	11	4.92
Averham Park ...	21.50	4.77	4	15	9.74	Florence Hall ...	9.18	4.00	4	9	...
						Holland Pen ...	8.20	2.50	2	7	...
Means ...	17.06	..	...	...	..	Orange Valley ...	...	...	...	...	...
						Kent ...	11.30	4.10	2	11	5.12
						Gales Valley ...	10.32	4.50	4	8	4.84
						Canaan ...	...	...	...	...	...
						Content ...	...	...	...	...	...
						Bellfield ...	15.55	5.60	4	11	...
						Hampden ...	...	...	...	...	...
						Moor Park ...	14.40	5.00	5	13	...
						Success ...	8.75	5.10	2	8	4.01
						Guilsbro ...	16.00	8.00	4	15	5.78
						Cinnamon Hill ...	8.75	5.10	2	10	5.16
						Rose Hall ...	6.90	3.10	2	8	5.04
						Running Gut ...	9.02	5.00	4	10	5.49
						Spring ...	7.88	2.90	4	9	...
						Montego Bay ...	10.05	5.19	2	11	4.30
						Fairfield, St. James ...	...	...	...	...	...
						King Gate ...	...	...	...	...	...
						Round Hill ...	7.75	2.00	4	6	...
						Sandy Bay ...	9.80	3.60	2	8	5.71
						Haughton Court ..	...	...	...	...	...
						Lucea ...	3.87	1.77	2	13	5.71
						Westfield ...	5.31	2.36	2	9	...

DECEMBER, 1911.

CENTRAL SUB-DIVISION.	Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Rio Magno ...	...	...	...	...	...
Headworks, Rio Cobre ...	3.39	1.22	5	8	4.74
Linstead ...	3.32	2.00	5	6	3.70
Berkshire Hall ...	5.13	2.05	5	11	...
Point Hill ...	7.93	2.85	5	8	10.16
Brown's Hall ...	2.19	0.80	5	6	8.13
Worthy Park ...	...	...	...	..	...
Crofts Hill ...	5.16	1.13	4	11	...
Chapelton ...	1.33	0.35	5	10	4.49
Mears ...	...	...	...	...	...
Danks Works ...	1.66	0.42	4	7	4.99
Savoy House ...	1.30	0.31	5	8	5.62
Trout Hall ...	2.15	0.66	3	9	...
Cave Valley ..	3.20	1.00	12	...	...
Greenock ...	3.76	1.20	12	...	...
Means ...	9.12	...	...	...	...
WEST-CENTRAL DIVISION.					
Whitney ...	1.45	0.35	31	9	...
Mocho, Clarendon ...	1.56	0.45	29	8	...
Baillieston ...	3.79	0.80	5	12	5.25
Brokenhurst ...	3.83	0.78	31	7	...
Christiana ...	4.45	1.30	30	10	6.82
Chudleigh ...	3.28	0.92	5	15	...
Shooter's Hill ...	1.90	0.46	4	10	..
Spitzbergen ...	2.82	0.96	4	11	...
Kendal, Manchester ...	2.27	0.80	4	9	5.99
Marshalls Pen ...	...	...	...	...	...
Mandeville ...	2.55	0.65	13	12	6.29
Carlton, Mandeville ...	1.64	0.62	13	13	...
Barry Hill ...	2.63	0.81	29	9	...
Fairfield, Manchester ...	2.61	0.74	3	15	6.46
Ulster Spring ...	4.63	1.78	2	7	6.49
Albert Town ...	7.70	1.75	6	13	...
Low River ...	7.40	2.15	2	10	.
Troy ...	2.05	0.64	2	8	6.46
Pepper ...	...	...	...	...	...
Fontabelle, Trel. ...	...	...	...	...	...
Windsor Pen, Trel. ...	6.16	2.34	2	11	6.03
Wallingford ...	1.48	1.00	3	9	...
Balaclava Police Station ...	1.51	0.85	3	4	5.91
Siloah ...	3.35	1.85	3	6	...
Santa Cruz ...	0.92	0.48	3	5	5.89
Appleton Estate ...	3.12	2.07	3	7	6.04
Maggotty ...	3.25	2.25	3	5	6.80
Spring Vale ...	13.53	5.41	4	11	6.08
Ipswich, Ry. St. ...	...	...	...	...	...
Springfield, St. Eliz. ...	...	..	...	...	...
Catadupa Rly. Station ...	...	...	...	...	...
Kempshot ...	15.35	6.25	4	19	6.18
Hazelymph ...	6.51	3.10	3	8	5.14
Kew Park ...	4.75	2.02	4	7	5.52
Copse ...	7.88	2.90	4	9	...
Petersville ...	0.19	0.13	2	2	...
Darliston ...	1.90	1.10	2	7	7.48
Whithorn ...	2.55	1.40	4	8	6.92
Great Valley, Han. ...	11.20	4.20	2	7	...
Brownsville ...	...	...	...	...	...
Fort William ...	...	...	...	...	...
George's Plain ...	...	...	...	...	...
Fontabelle, Westm. ...	5.56	2.32	4	7	3.02
Belleisle ...	5.31	1.87	4	9	3.36
Morgan's Bridge ...	5.62	2.35	4	7	5.30
Glasgow Estate ...	6.22	2.22	2	12	...
King's Vale Police St. ...	9.60	3.60	2	8	5.46
Means ...	5.20	...	...	...	...

SOUTHERN DIVISION.	Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	5.08	0.78	30	23	6.90
East Prospect ...	8.46	1.52	8	20	...
Morant Bay ...	6.94	0.96	13	19	6.44
Easington ...	5.20	0.75	5	20	5.35
Bull Bay ...	1.15	...	...	...	...
Bellevue ...	...	...	...	..	...
Gordon Town ...	3.65	1.70	5	4	...
Hope Gardens ...	...	...	...	...	...
King's House Gardens ...	4.99	2.40	2	9	3.31
Halfway Tree ...	3.20	0.93	5	3	...
Lunatic Asylum ...	1.12	0.49	3	8	3.57
Kingston S. Camp Road ...	1.54	0.50	3	9	...
" Parade Gard. ...	1.35	0.65	4	4	...
" P. W. Office ...	1.11	0.38	3	11	3.00
Plumb Point L. H. ...	0.91	0.20	3	9	2.32
Ballast Ground ...	1.75	0.75	2	3	...
Quarantine Station ...	0.42	0.15	15	4	...
Spanish Town	1.31	0.40	29	8	3.56
Hog Hole Pen ...	2.59	0.98	11	6	4.34
Hartlands ...	0.66	0.48	13	2	...
Old Harbour ...	0.81	0.31	7	3	3.60
May Pen ...	0.83	0.35	31	3	4.51
Hillside Estate ...	...	...	...	...	..
Amity Hall ...	...	...	...	...	...
Money Musk ...	...	...	...	...	...
Dunkley's Vere ...	1.13	0.55	29	4	3.92
Dry River " ...	1.01	0.34	31	4	...
Caswell Hill " ...	0.73	0.33	31	3	...
Denbigh ...	...	...	...	...	...
Toll Gate ...	2.71	1.55	4	6	...
Woodleigh ...	0.60	0.60	30	1	...
New Yarmouth ...	0.90	0.30	6	4	2.66
Exeter, Vere ...	...	...	...	...	...
Rhymesbury ...	1.50	0.47	29	9	3.58
Springfield, Clarendon ...	...	...	...	...	...
Milk River ...	4.30	2.80	22	5	4.26
Clarendon Pk. Ry. St. ...	...	...	...	...	...
Victoria Town ...	1.90	0.98	30	4	4.53
Stone's Hope ...	4.18	1.90	3	5	5.01
Newport, Manchester ...	3.52	1.24	28	7	6.29
Great Valley, Man. ...	1.65	0.64	29	5	4.24
Alligator Pond ...	0.32	0.20	30	2	2.97
Lititz ...	1.11	0.85	3	5	...
Long Hill ...	...	...	...	...	...
Unity, Malvern ...	...	...	...	...	...
Bethlehem, St. Eliz. ...	3.36	1.47	4	8	7.32
Torrington ...	1.56	0.75	4	4	6.99
Pedro Plains ...	0.66	0.37	2	3	4.01
Black River ...	2.80	2.80	2	1	4.53
Font Hill ...	0.50	0.45	3	2	5.32
Mount Edgecombe ...	0.66	0.41	3	4	...
Bluefields ...	1.00	0.90	13	3	...
Sweet River ...	2.14	6.56	3	7	3.80
Windsor, Sav.-la-mar ...	2.91	0.84	12	8	3.64
Orchard, Sav.-la-mar ...	2.49	0.78	4	9	...
Sav.-la-mar ...	2.06	0.83	2	4	3[illegible]
Retreat ...	3.89	1.60	4	7	4.7[illegible]
White Hall ...	3.04	1.03	2	7	...
Negril Point L.H. ...	2.98	0.88	4	8	3.21
Negril Pol. Sta. ...	2.39	1.20	2	7	...
Means ...	4.46	...	...	...	..

S.

COMPARATIVE TABLE OF RAINFALL.

(Based upon the "Average" Stations only.)

	December,	
	1911.	Average.
	In.	In.
North-Eastern Division ...	17.06	10.28
Northern ...	9.12	5.45
West-Central ...	5.20	3.60
Southern ...	2.46	2.61
The Island ...	8.46	5.49

The heaviest rainfall 42.62 inches was recorded at Mt. Holstein; and the smallest 0.32 inch at Alligator Pond.

Rainfall at Grand Cayman. November, 1911.	Total Fall.	Greatest fall. Amount.	Greatest fall. Date.	No. of days on which 0.01 or more fell.
East End ...	8.39	3.40	21	17
Bodden Town ...	...	...	...	...
George Town ...	11.59	3.68	23	16

SHOCKS OF EARTHQUAKE IN DECEMBER, 1911.

Date.	Mean time. hr.	min.	Intensity.	Notes: where felt, etc.
13	4	5 .am.	I	Kingston and Mt. Holstein.
13	5	20 p.m.	I	Kingston and Mt. Holstein N. ·003

MAGNETIC VARIATION. The variation of the compass at the Kempshot Observatory DEC. 11th to 24th was 2° 26′ east

CORRIGENDA. W. R. for Nov. 1911, p. 4 Comparative Table: for October read November. Rainfall at Grand Cayman: for November read October

MILES OF WIND PER DIEM REGISTERED AT THE PLUMB POINT LIGHT HOUSE.

1911	Mean.	Greatest.	Date.	Least.	Date.	Average direction (from)
Dec.	218	563	22nd	36	5th	SE.

THE RAINFALL OVER THE ISLAND.
(From about 150 "Average" Stations).

1911.	Rainfall Divisions. NE.	N.	WC.	S.	The Island.
	in.	in.	in.	in.	in.
January ...	8.68	4.74	2.27	1.71	4.35
February ...	2.88	1.32	1.05	0.52	1.44
March ...	1.30	0.79	3.42	2.58	2.02
April ...	3.77	1.48	7.88	2.86	4.00
May ...	11.87	9.16	13.94	6.33	10.31
June ...	6.47	2.38	4.43	1.97	3.81
July ...	3.09	1.90	5.71	2.20	3.22
August ...	4.89	1.74	7.92	2.92	4.37
September ...	4.87	3.95	10.11	3 90	5.71
October ...	7.71	6.28	12.83	6.28	8.28
November ...	7.71	3.67	4.04	4.26	4.92
December ...	17.06	9.12	5.20	2.46	8.46
Totals ...	80.30	46.53	78.80	37.99	60.91

Weather Office,
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

METEOROLOGICAL OBSERVATIONS.—KINGSTON JAMAICA. MEAN RESULTS FOR THE YEAR 1911. ELEVATION 24 FEET.

Month.	Bar Pressure.		Temperature.						Extremes for the month.			Dewpoint and humidity				Rain-fall.	Miles of Wind per diem.	Wind from and miles per hour.				Clouds in tenths.						Weather Conditions.
																		7 a.m		3 p.m		Lower		Middle.		Upper.		
	7 a.m	3 p.m.	Mean.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Min	Range.	7 a.m		3 p.m								7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	
	Ins.	Ins.	°	°	°	°	°	°	°	°	°	°		°		Ins.		mls.		mls								
Jan. ..	30.011	29.961	75.3	68.7	81.6	86.6	66.4	20.2	90.1	62.7	27.4	63.4	83	67.2	62	0.13	119.3	N	3.9	SEbE	9.3	1.6	2.1	1.1	2.8	0.6	0.4	Rainfall much below the average. Thunderstorm on 12th, 17th, 22nd, 23rd. Fine 9 days.
Feb.* ..	29.988	29.939	75.2	68.2	81.9	87.0	65.9	21.1	89.8	63.0	26.8	58.9	72	63.8	54	0.03	143.9	N	5.1	SSEbS	9.7	0.7	2.3	0.7	3.1	1.0	0.2	Rainfall as well as humidity considerably below the average. Fine throughout.
March ..	30.009	29.972	75.2	69.9	80.9	85.8	66.3	19.5	88.6	63.2	25.4	62.8	78	66.6	62	2.05	150.2	N	4.2	S E	11.5	0.0	3.5	0.7	2.3	1.0	0.5	Rainfall about twice the average. Fine on 12 days. Humidity a little below the average.
April ..	29.956	29.905	78.6	75.8	82.9	85.1	69.4	18.7	91.8	66.0	25.8	65.8	71	69.0	63	1.36	194.8	NNE	4.2	SE	15.5	0.5	3.4	1.0	2.0	0.4	0.7	Rainfall somewhat above the average. High S.E. wind on 23rd and 24th. Distant lightning about 8 p.m. on 29th. Low barometer on 25th. Fine on 16 days.
May ..	29.987	29.865	79.0	77.1	81.8	87.3	71.7	15.6	91.3	68.8	22.5	69.6	78	71.1	70	1.92	178.6	NE	4.6	SE	12.8	1.5	4.4	1.2	1.6	1.9	2.9	Rainfall much below the average. Thunderstorms on 8 days. S.E. squalls 15th and 31st. Fine on 3 days. Lowest barometer on 15th. Humidity equal to average.
June ..	29.961	29.924	82.7	80.7	86.9	90.6	74.8	15.8	95.2	72.4	22.8	70.5	71	72.8	63	0.37	293.5	EbS	7.4	SE	20.5	1.4	2.0	0.5	1.5	2.9	3.5	Rainfall one-twelfth of the average. [illegible] derstorms and distant lightning on 6 days S.E. gale on 26th. Humidity fell to 38 on 25th.
July ..	29.987	29.937	82.2	79.2	86.7	91.6	73.7	17.9	94.7	70.6	24.1	71.6	78	70.3	58	0.35	242.9	NNE	4.1	SE	21.2	0.3	2.5	0.6	1.3	3.3	3.5	Rainfall about one-fith the average. Rain in vicinity on 10 days. Distant lightning on 6 occasions. Thunderstorm on 17th and 30th Fine on 5 days. Humidity below average
Aug. .	29.935	29.889	81.9	78.1	86.0	91.7	73.9	17.8	95.0	69.9	25.1	68.5	73	72.8	65	1.48	225.9	N	3.7	SE	20.1	0.4	3.4	0.2	1.9	3.3	1.5	Rainfall below the average. Thunderstor 12th. 13th, 14th, 25th, 27th and 28th. tant lightning on 19 nights. Fine 6 da Humidity much below the average.
Sept. ..	29.911	29.862	82.1	78.4	85.6	92.2	74.3	17.9	95.2	71.3	23.9	70.6	77	75.0	71	0.86	195.7	N	4.2	SE	16.5	0.6	3.0	0.9	2.2	2.9	2.3	Rainfall very deficient, being one-fifth average. Thunderstorm and distant l ning throughout the month.
Oct. ..	29.892	29.849	80.9	77.0	83.5	91.7	73.5	18.2	94.9	71.9	23.0	70.9	82	73 8	73	1.63	152.8	NNE	4.2	SEbE	10.7	1.0	3.9	0.2	3.0	3.0	1.4	Rainfall much below the average. Thur storms and distant lightning occurred d the month.
Nov. .	29.908	29.850	80.0	75.4	84.4	89.4	72.9	16.5	92.7	70.5	22.2	70 8	86	72.9	69	1.78	168.3	NNE	4.5	SE	12.2	2.4	2.9	1.7	2.0	0.6	1.5	Rainfall much below the average. thunderstorms on 9 days. S.E. rai on or about the 12th and 14th and 2 24th. Fine towards end of month.
Dec. ..	29.915	29.866	77.4	71.8	82.2	87.6	70.0	17.6	91.8	65.5	26.3	67.4	86	71.2	70	1.11	171.8	NNE	5.2	SE	10.8	2.6	2.7	0.7	2.1	0.3	0.1	Northers on 5th, 6th, 10th, 11th. Ra 13th and 31st distant lightning 17t 10 days.
Total ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13.07												
Means ..	29.947	29.902	79.2	75.0	83.7	89.1	71.1	18.0	92.6	68.0	24.6	67.6	78	70.5	65	..	186.5	NNE	4.6	SE	14.2	1.1	3.0	0.8	2.1	1.8	1.5	An unusual rainfall deficienc lightening.

* Weather instruments removed from old P.W.O., Parade to the New Office about the middle of February.

MAXWELL HALL, Govt. M

551.05
JA
11 Ap12

No. 400

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

JANUARY, 1912.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House .	8	29.996	29.953	77.6	80.1	81.6	72.9	8.7	83.5	31st	64.5	26th	19.0
Kingston .	24	29.967	29.922	71.0	81.6	87.5	68.8	18.7	91.0	6th	64.4	6th	26.6
Negril Point Light House	33	29.985	29.935	71.9	81.6	4.6	68.6	16.0	88.4	19th	65.0	24th	23.4
Castleton Gardens .	496	...	...	64.6	81.0	86.0	56.0	30.0	92.0	13th	52.0	9th	40.0
Hope Gardens† .	668	29.988	29.894	68.0	82.0	84.0	66.0	18.0	88.0	6th	64.0	5th	24.0
Stony Hill Reformatory .	1,400	...	...	66.5	76.7	80.0	63.5	16.5	84.0	1st*	61.0	4th	23.0
Hill Gardens .	4,907	25.305	25.253	60.0	63.0	67.0	53.0	14.0	71.0	4th	50.0	4th*	21.0

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: (direction from and miles per hour.)				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House .	8	70.6	88	74.7	84	5.65	...	E	15.7	E	15.9	1.5	2.8	2.5	0.7	2.3	2.3
Kingston .	24	66.1	84	71.0	70	1.40	214	NE	6.2	SE	16.0	2.1	0.3	0.1	1.8	1.9	0.3
Negril Point Light House‡	33	.	82	68.6	65	2.53	251	NE	8.8	Var.	14.5	1.1	1.9	0.4	1.4	4.1	0.1
Castleton Gardens .	496	62.1	69	93.3	72	15.69	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens .	668	62.6	67	84.2	74	1.97	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory .	1,400	64.2		71.4	83	3.97	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens .	4,907	54.4	59	80.6	87	6.08	...	...	...	...	...		...	...	...	...	...

* and on other days.

† Hope Gardens. Bar. read at 9 a.m. and 3 p.m.

‡ Negril Point Light House. Wind 11 p.m. E. N. E. 8.3

RAINFALL FOR JANUARY, 1912.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to Weather Report, No. 256A. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	JANUARY, 1912.				
	Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	...	...	...	...	...
Spring Valley .	10.44	2.15	17	18	...
Bath ...	10.34	1.02	11	24	6.26
Boston ...	...	...	...	..	...
Moore Town ...	15.49	...		...	18.55
Port Antonio ...	11.50	3.86	17	15	9.10
Fellowship ...	16.64	6.61	16	23	14.16
Windsor, Portland ...	16.25	7.00	10	14	...
Johnson River Bridge ...	3.16	0.75	17	19	3.59
Shrewsbury ...	20.12	7.83	16	17	...
Cedar Valley, St. Thos. ...	3.74	0.80	16	14	4.46
Moy Hall, St. Thos. ...	3.54	1.05	17	9	3.46
Lennox ...	10.84	2.30	17	14	..
Hill Gardens ...	6.08	2.75	16	10	7.09
Buff Bay ...	8.49	2.08	17	12	10.22
Vinery ...	12.01	3.21	16	10	...
Windsor Castle, Port. ...	7.82	2.84	15	8	...
Greenvale, Portland ...	24.08	12.04	16	16	..
Mt. Holstein ...	15.14	6.96	16	16	14.03
Irish Town ...	2.20	1.30	16	3	...
Hardware Gap ...	3.75	...	...	...	...
Stony Hill Reform. ...	3.79	1.68	16	6	3.30
Castleton Gardens ...	15.69	9.20	16	9	8.87
Lawrence Tavern ...	5.85	4.30	16	4	...
Carew Castle ...	5.80	2.94	16	7	2.60
Agualta Vale ...	6.69	1.70	17	11	...
Water Valley ...	5.88	2.31	31	11	7.90
Albany, Ry. Station ..	6.60	2.50	31	7	...
Platfield ...	10.61	4.86	16	8	...
Richmond, St. Mary ..	7.05	2.47	16	10	6.18
Hampstead, St. Mary ...	7.84	3.20	31	12	...
Kendal, St. Mary ...	...	...	...	...	...
Troja ...	8.93	3.00	16	6	...
Gayle ...	4.86	1.38	31	10	7.14
Rio Hoe ...	4.76	1.95	31	7	5.47
Unity Valley ...	4.76	2.28	31	12	4.69
Moneague ...	3.86	1.40	31	...	4.18
Union Hill ...	...	...	...	...	...
Claremont ...	5.09	1.78	16	7	6.12
Albion, St. Ann ...	5.13	1.94	16	10	5.15
Averham Park ...	7.19	3.12	16	9	6.88
Means ...	7.64	..	...	...	..

NORTHERN DIVISION.	JANUARY, 1912.				
	Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	6.39	3.10	31	15	6.72
Ocho Rios ...	4.42	1.12	31	7	5.42
Bogue, Ocho Rios ...	6.15	2.60	16	7	...
Arthurs Seat ...	...	...	...	...	...
Drax Hall ...	4.09	1.00	14	9	4.84
Liberty Hill ...	4.55	1.16	17	8	...
St. Ann's Bay ...	3.50	1.20	14	13	5.01
Seville ...	3.61	1.08	31	8	5.61
Richmond Estate ...	4.57	1.72	31	6	6.37
Llandovery ...	5.09	1.75	31	5	6.62
Southfield, St. Ann ...	...	...	...	...	...
Ballintoy ...	...	...	...	...	...
Brown's Town ...	7.81	3.57	31	7	5.41
Hyde Park ...	...	...	...	...	...
Dry Harbour ...	2.18	0.67	15	6	4.69
Chewmagna, St. Ann ...	3.77	2.40	31	6	2.70
Home Castle ...	6.40	1.90	16	6	5.39
Richmond Pen ...	4.18	2.50	31	5	3.48
Mahogany Hall ...	6.08	3.08	31	8	4.76
Barnstaple ...	5.40	1.55	16	5	...
Brampton Bryan ...	5.78	1.92	31	5	4.12
Bryan Castle ...	3.57	1.18	15	7	4.66
Braco ...	2.85	1.20	15	6	4.17
Arcadia ...	4.85	1.75	16	7	4.38
Lancaster ...	3.34	1.38	15	5	4.59
Harmony Hall ...	2.48	1.14	15	5	3.97
Vale Royal ...	5.99	2.15	15	5	4.94
Colchis Pen ...	2.07	1.30	31	6	3.29
Swanswick ...	5.40	1.60	31	5	...
Hyde ...	7.08	3.22	31	5	4.47
Georgia ...	...	...	...	...	...
Long Pond ...	...	...		...	...
Hyde Hall ...	...	...	...	...	...
Steelfield ...	...	...	...	...	...
Etingdon ...	...	...	...	...	...
Oxford ...	...	...	...	...	...
Cambridge ...	...	..	...	...	...
Lottery ...	5.00	1.65	15	6	3.78
Falmouth ...	3.99	1.76	15	5	3.60
Florence Hall ...	3.93	1.90	22	7	...
Holland Pen ...	4.60	2.50	16	4	2.93
Orange Valley ...	...	...	...	...	...
Kent ...	...	...	...	...	...
Gales Valley ...	4.37	1.75	15	5	3.35
Canaan ...	...	...	...	...	...
Content ...	...	...	...	...	...
Bellfield ...	3.75	2.55	15	5	...
Hampden ...	...	...	...	...	...
Moor Park ...	4.54	2.00	15	5	...
Success ...	...	...	...	...	...
Guilsbro ...	6.80	2.20	16	...	3.15
Cinnamon Hill ...	...	...	...	...	...
Rose Hall ...	...	...	...	...	...
Running Gut ...	...	...	...	...	...
Spring ...	...	...	...	...	...
Montego Bay ...	3.13	2.38	15	5	2.92
Catherine Hall ...	6.25	3.33	16	...	3.51
Fairfield, St. James ...	...	...	...	...	...
King Gate ...	...	...	...	...	...
Round Hill ...	3.50	1.50	15	5	2.40
Sandy Bay ...	3.35	2.00	16	4	3.78
Haughton Court .	...	...	...	...	...
Lucea ...	2.81	1.33	15	8	3.07
Westfield ...	4.37	1.68	15	11	...

CENTRAL SUB-DIVISION.	JANUARY, 1912. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Rio Magno ...	...	...	...	...	...
Headworks, Rio Cobre ...	1.99	0.75	16	5	1.84
Linstead ...	3.92	1.09	17	5	2.15
Berkshire Hall ...	2.87	1.00	17	9	...
Point Hill ...	6.99	1.86	16	12	2.74
Brown's Hall .	3.25	1.30	31	6	1.80
Worthy Park ...	3.70	1.60	31	5	2.04
Crofts Hill ...	1.26	0.61	31	7	...
Chapelton ...	2.17	0.57	16	11	2.24
Mears ...	...	...	...	...	...
Danks Works ...	1.72	0.45	16	7	1.89
Savoy House ...	1.58	0.40	14	6	2.29
Trout Hall ...	1.83	0.85	31	7	...
Cave Valley ..	1.65	0.80	15	...	2.26
Greenock ...	1.82	0.70	15	...	...
Means ...	4.22	...	...	...	...
WEST-CENTRAL DIVISION.					
Whitney ...	1.63	0.60	12	7	...
Mocho, Clarendon ...	1.98	0.74	15	6	...
Baillieston ...	...	...	..	...	...
Brokenhurst ...	3.06	0.65	14	10	3.12
Christiana ...	1.19	0.31	14	6	2.35
Chudleigh ...	1.46	0.28	14	7	...
Shooter's Hill ...	1.73	0.50	30	12	..
Spitzbergen ...	1.96	0.38	14	10	...
Kendal, Manchester ...	1.32	0.34	30	10	2.39
Marshalls Pen ...	1.38	0.45	13	9	2.85
Mandeville ...	1.38	0.35	14	12	3.01
Carlton, Mandeville ...	1.09	0.28	14	11	..
Berry Hill ...	1.42	0.37	3	9	...
Fairfield, Manchester ...	1.38	0.35	31	8	2.61
Ulster Spring ...	4.81	3.11	31	5	3.00
Albert Town ...	8.33	3.10	31	7	...
Low River ...	3.22	1.75	31	4	.
Troy ...	2.74	1.12	15	6	22.5
Pepper ...	...	...	...	...	...
Fontabelle, Trel. ...	...	...	...	...	...
Windsor Pen, Trel. ...	3.86	1.56	31	7	3.13
Wallingford ...	2.41	1.02	15	6	...
Balaclava Police Station ...	2.12	0.91	15	5	1.71
Siloah ...	3.70	2.40	24	5	...
Santa Cruz ...	2.04	0.81	15	6	2.83
Appleton Estate ...	4.91	3.37	29	5	2.59
Maggotty ...	3.30	1.05	15	9	2.72
Spring Vale ...	5.06	1.65	31	7	4.03
Ipswich, Ry. St. ...	2.51	1.28	15	5	...
Springfield, St. Eliz. ...	...	.	...	...	...
Catadupa Rly. Station ...	...	...	...	...	...
Kempshot ...	5.19	2.08	15	8	3.98
Hazelymph ...	2.65	1.30	15	5	2.32
Kew Park ...	2.61	1.34	15	8	2.32
Copse ...	...	...	...	...	...
Ramble ...	2.87	1.72	15	4	...
Petersville ...	3.16	1.40	15	7	225
Darliston ...	5.29	1.45	15	12	2.93
Whithorn ...	3.72	1.45	15	13	1.97
Great Valley, Han. ...	6.35	4.20	31	4	4.68
Brownsville ...	...	...	...	...	...
Fort William ...	...	...	...	...	...
George's Plain ...	...	...	...	...	...
Fontabelle, Westm. ...	4.28	1.80	15	11	1.94
Belleisle ...	4.44	1.84	31	12	1.80
Morgan's Bridge ...	5.54	2.30	15	10	1.82
Glasgow Estate ...	2.29	1.50	15	8	3.79
King's Vale Police St. ...	4.10	1.90	31	5	3.26
Means ...	3.39	...	...	...	...

SOUTHERN DIVISION.	JANUARY, 1912. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	5.65	1.22	18	21	4.30
East Prospect ...	5.05	0.74	17	22	...
Morant Bay ...	5.56	0.45	15	14	2.70
Easington ...	1.33	0.50	14	11	1.64
Bull Bay ...	...	...	...	...	...
Bellevue ...	2.96	1.02	16	8	...
Gordon Town ...	1.42	0.80	16	5	...
Hope Gardens ...	1.97	0.85	17	7	1.77
King's House Gardens ...	1.15	0.60	17	5	1.22
Halfway Tree ...	1.15	1.03	16	2	...
Lunatic Asylum ...	1.25	0.62	16	5	0.72
Kingston S. Camp Road ...	1.74	1.01	16	5	...
" Parade Gard. ...	1.73	1.04	...	3	...
" P. W. Office ..	1.40	0.68	16	4	1.02
Plumb Point L. H. ...	0.29	0.16	16	6	0.80
Ballast Ground ...	2.49	1.86	17	3	...
Quarantine Station ...	1.65	0.70	16	4	...
Spanish Town ...	2.83	0.46	16	6	1.52
Hog Hole Pen ...	3.23	1.82	17	4	1.71
Hartlands ...	2.29	1.46	16	5	...
Old Harbour ...	5.27	1.40	31	7	2.07
May Pen ...	2.56	0.75	16	8	1.26
Hillside Estate ...	...	...	...	...	...
Amity Hall ...	3.45	1.10	16	7	...
Money Musk ...	...	...	...	...	...
Dunkley's, Vere ...	2.29	0.90	16	7	1.33
Dry River " ...	2.08	0.90	16	9	...
Caswell Hill " ...	2.08	0.91	16	4	...
Denbigh ...	...	...	...	...	...
Toll Gate ...	1.61	0.61	14	8	...
Woodleigh ...	1.90	0.50	13	7	...
New Yarmouth ...	2.03	0.93	16	6	1.20
Exeter, Vere ...	1.87	0.92	16	8	...
Rhymesbury ...	1.82	0.56	14	10	1.01
Springfield, Clarendon ...	...	...	...	...	...
Milk River ...	2.30	0.60	14	7	1.50
Clarendon Pk. Ry. St. ...	5.33	3.75	14	7	...
Victoria Town ...	3.85	1.51	16	5	1.80
Stone's Hope ...	1.88	0.55	14	5	2.68
Newport, Manchester ...	1.76	1.45	14	7	2.66
Great Valley, Man. ...	1.77	0.55	14	7	2.49
Alligator Pond ...	1.09	0.37	14	3	1.41
Lititz ...	1.08	0.35	15	5	...
Long Hill ...	...	...	...	...	...
Unity, Malvern ...	1.73	0.55	16	5	...
Bethlehem, St. Eliz. ...	2.59	1.67	15	8	2.52
Torrington ...	1.87	0.68	16	5	2.31
Pedro Plains ...	1.40	0.70	15	4	2.04
Black River ...	1.71	0.78	15	7	1.63
Font Hill ...	2.00	1.05	15	5	1.88
Mount Edgecombe ...	2.79	1.32	15	8	2.04
Bluefields ...	2.57	0.84	1	4	...
Sweet River ...	2.84	1.40	15	7	1.82
Windsor, Sav.-la-mar ...	3.73	1.41	15	10	1.83
Orchard, Sav.-la-mar ...	4.23	1.42	15	9	...
Sav.-la-mar ...	3.17	1.40	15	10	1.62
Retreat ...	2.23	1.60	15	4	1.57
White Hall ...	2.98	2.04	15	7	...
Negril Point L.H. ...	2.53	0.38	15	7	1.34
Negril Pol. Sta. ...	1.90	0.35	15	8	...
Means ...	2.35	...	...	...	..

NOTES.

COMPARATIVE TABLE OF RAINFALL.

(Based upon the "Average" Stations only.)

—	January.	
	1912.	Average.
	In.	In.
North-Eastern Division ...	7.64	7.15
Northern ...	4.22	3.77
West-Central ...	3.39	2.85
Southern ...	2.35	1.81
The Island ...	4.40	3.89

The heaviest rainfall 24.08 inches was recorded at Greenvale, Portland and the smallest 0.29 at Plum Point Light House.

Rainfall at Grand Cayman. December, 1911.	Total Fall.	Greatest fall. Amount.	Greatest fall. Date.	No. of days on which 0.01 or more fell.
East End ...	1.81	0.45	5	8
Bodden Town ...	...	...	...	...
George Town ...	4.39	2.20	4	12

SHOCKS OF EARTHQUAKE IN JANUARY, 1912.

Date.	Mean time.	Intensity.	Notes: where felt, etc.
	hr. min.		
6	7 00 .am.	I	Hampstead, Richmond, Guy's Hill, and Highgate.
6	10 00 a.m.	I	Hampstead and Richmond, slight
10	4 00 p.m.	II	Highgate N.
10	4 00 p.m.	I	Richmond and Port Maria slight.

MAGNETIC VARIATION. The variation of the compass at the Kempshot Observatory Jan. 7th to 14th was 2° 27′ E

CORRIGENDA. W. R. 399 Dec. 1911. page 2. N. div. Bellfield, for 15.55 read 13.55.
W. R. 393 June 1911. page 2 N. div. Port Maria, for 7.31 read 7.23.
W. R. 389 February 1911. page 2 N.E. div. Hampstead, for 4-31 read 3-93.

MILES OF WIND PER DIEM REGISTERED AT THE PLUMB POINT LIGHT HOUSE.

1912	Mean.	Greatest.	Date.	Least.	Date.	Average direction (from) 7 a.m.	Average direction (from) 3 p.m.
January	252	532	2nd	82	6th	N.W.	S.E.

Weather Office,
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

MORANT POINT LIGHT HOUSE. MEAN RESULTS FOR THE YEAR 1911.

Month.	Bar Pressure.		Temperature.					Extremes for Month.			Dewpoint and Humidity.				Rain-fall.	Direction of Wind and miles per hour.				Clouds in tenths					
																				Lower.		Middle.		Upper.	
	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min	Range	Max.	Min.	Range.	7 a.m.		3 p.m.			7 a.m.		3 p.m.		7 a.m.	3 p.m.	7 a.m.	3 p. m.	7 a.m.	3 p.m.
															in ftft										
January	30.034	29.992	76.6	78.4	80.5	73.5	7.2	84.0	70.0	14.0	70.1	80.4	66.2	66.3	4.27	N.E	17.0	NE	16.3	1.5	0.9	2.2	2.2	2.2	2.2
February	30.008	29.969	76.0	77.8	79.9	73.2	6.8	81.5	68.0	13.5	71.7	86.5	70.5	78.3	1.57	NE	17.0	NE	17.0	1.4	0.8	2.6	2.1	2.2	2.1
March	30.027	29.992	73.3	78.5	80.5	69.3	11.2	83.0	61.0	22.0	67.6	70.2	82.3	76.0	0.33	NE	11.8	NE	13.0	1.0	2.4	2.0	1.0	1.7	1.9
April	29.969	29.927	76.5	80.5	82.6	72.5	10.1	85.0	66.0	19.0	69.7	79.5	73.6	80.0	1.66	NE	12.8	NE	14.6	0.8	2.2	2.4	0.9	2.0	2.3
May	29.916	29.897	78.5	81.6	83.9	73.0	10.9	86.0	68.0	18.0	73.1	83.9	74.8	80.0	11.45	NE	10.2	SE	11.9	1.7	2.1	2.5	1.5	2.5	3.1
June	29.990	29.959	81.4	83.4	84.8	77.7	7.1	86.0	71.0	15.0	76.0	84.5	77.6	82.9	2.91	ESE	19.4	ESE	18.8	1.4	3.0	2.6	1.4	2.6	2.7
July	30.009	29.980	81.7	83.6	85.2	78 2	7.0	86.5	74.5	12.0	75.5	81.4	76.0	78.2	2.29	ESE	17.7	ESE	17.7	2.0	2.6	2.9	1.5	2.5	3.0
August	29.956	29.919	81.5	84.4	86.0	77.8	8.2	87.5	71.0	16.5	77.5	87.8	78.6	82.9	3.52	E	12.4	E	16.0	1.2	2.3	3.0	1.0	2.2	3.0
September	29.928	29.891	81.7	85.2	86.9	77.3	9.6	89.5	71.0	17.5	76.5	86.8	77.8	78.6	4.40	E	12.0	E	14.2	1.1	2.7	2.8	0.9	2.4	3.0
October	29.878	29.862	79.8	84.3	86.4	75.5	10.9	87.8	66.5	21.3	75.2	85.7	75.2	75.7	4.43	E	9.9	E	11.5	0.8	2.5	2.5	0.7	2.4	2.9
November	29.929	29.872	81.1	81.3	84.7	76.2	8.5	86.5	71.0	15.5	75.6	81.6	76.9	83.6	7.68	E	14.6	E	14.6	1.6	2.8	2.6	1.0	2.6	2.7
December	29.942	29.896	78.2	80.6	82.2	74.3	7.9	84.0	62 5	21.5	74.0	87.1	74.9	83.0	5.08	E	19.4	E	20.4	1.6	2.6	2.4	1.4	2.6	2.3
Total ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Means ..	29.966	29.929	78.9	81.6	84.6	74.9	9.7	85.5	68.4	17.4	73.5	83.0	75.4	78.8	4.13	E	14.7	E	15.5	1.3	2.2	2.5	1.4	2.3	2.6

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No. 401

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

FEBRUARY, 1912.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House	8	29.980	29.951	75.2	79.5	82.4	71.1	11.3	86.0	26th	64.0	10th	24.0
Kingston	24	29.961	29.923	69.8	81.6	85.6	68.5	17.1	90.8	23rd	61.2	9th	29.6
Negril Point Light House	33	29.981	29.935	70.9	79.7	82.2	67.3	14.9	86.7	23rd*	60.8	9th	25.9
Castleton Gardens	496	...	...	64.0	80.0	85.0	55.0	30.0	92.0	22nd*	47.0	9th	45.0
Hope Gardens†	668	29.985	29.895	67.0	81.0	83.0	65.0	18.0	87.0	23rd*	61.0	8th	26.0
Stony Hill Reformatory	1,400	...	...	65.9	76.8	84.5	61.5	23.0	90.0	25th	56.0	9th	34.0
Hill Gardens	4,907	25.286	25.245	59.0	61.0	66.0	52.0	14.0	70.0	12th	44.0	8th	26.0

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: (direction from and miles per hour.)				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House	8	71.0	87	71.6	73	4.20	...	SE	12.5	SE	12.3	2.3	2.0	2.0	2.0	1.9	2.0
Kingston	24	64.5	83	71.5	72	0.74	242	NNE	6.8	SE	14.7	1.5	0.7	0.4	3.0	1.9	0.3
Negril Point Light House‡	33	64.2	80	67.0	65	2.18	284	NE by E	8.8	ENE	15.6	2.9	0.6	1.1	3.0	3.3	0.0
Castleton Gardens	496	62.2	93	68.2	67	2.26	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens	668	61.6	84	65.8	64	1.51	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory	1,400	61.2	84	66.2	69	3.20	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens	4,907	55.2	86	57.2	87	3.74	...	...	...	...	...	.	...	...	...	...	...

* and on other days.

† Hope Gardens. Bar. read at 9 a.m. and 3 p.m.

‡ Negril Point Light House. Wind 11 p.m., E. N. E. 11.1.

RAINFALL FOR FEBRUARY, 1912.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to Weather Report, No. 256A. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	FEBRUARY, 1912. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	...	...	...	...	...
Spring Valley .	12.53	4.65	1	13	...
Bath ...	4.72	1.33	1	8	4.86
Boston ...	7.70	5.10	2	3	6.14
Moore Town ...	10.46	...	...	...	14.18
Port Antonio ...	10.48	7.49	3	6	6.19
Fellowship ...	16.04	10.46	13	9	11.70
Windsor, Portland ...	4.25	3.00	10	3	...
Johnson River Bridge ...	2.14	1.10	6	13	2.24
Fruitfull Vale ...	9.14	4.09	1	14	...
Cedar Valley, St. Thos. ...	3.38	1.36	6	9	2.76
Moy Hall, St. Thos. ...	3.50	1.00	6	9	2.45
Lennox ...	13.72	4.45	13	7	..
Hill Gardens ...	3.74	1.90	7	7	4.05
Buff Bay ...	9.74	3.60	13	8	7.74
Vinery ...	7.98	2.20	2	7	...
Windsor Castle, Port. ...	8.82	3.15	13	7	...
Greenvale, Portland ...	5.41	2.21	1	13	..
Mt. Holstein ...	4.02	1.28	1	6	7.46
Irish Town ..	3.15	1.75	6	4	...
Hardware Gap ...	...	...	...	...	...
Stony Hill Reform. ...	3.20	1.40	7	6	2.22
Castleton Gardens ...	2.26	0.83	7	6	4.95
Lawrence Tavern ...	1.35	0.95	8	2	2.36
Carew Castle ...	3.02	0.83	7	8	1.84
Agualta Vale ...	4.35	1.50	13	5	...
Water Valley ...	3.82	1.28	13	5	5.73
Albany, Ry. Station ..	2.70	2.30	13	3	...
Platfield ...	1.50	0.47	7	6	...
Richmond, St. Mary ..	2.40	1.55	7	6	5.31
Hampstead, St. Mary ...	5.20	1.37	13	7	...
Kendal, St. Mary ...	...	...	...	...	...
Troja ...	2.70	1.00	8	5	...
Gayle ...	3.34	0.75	15	9	5.41
Rio Hoe ...	0.69	0.46	6	4	4.05
Unity Valley ...	1.13	0.38	7	8	3.60
Moneague ...	0.65	0.33	5	5	4.08
Union Hill ...	...	...	...	...	...
Claremont ...	1.01	0.41	7	3	4.58
Albion, St. Ann ...	2.07	0.57	7	9	3.59
Averham Park ...	1.36	0.61	7	4	4.50
Means ...	4.10	..	...	...	..

NORTHERN DIVISION.	FEBRUARY, 1912. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	2.57	0.83	1	9	5.95
Ocho Rios ...	2.45	1.20	13	4	3.85
Bogue, Ocho Rios ...	4.40	1.62	13	6	...
Arthurs Seat ...	...	...	...	...	...
Drax Hall ...	4.45	1.50	7	6	4.47
Liberty Hill ...	3.13	2.10	7	4	...
St. Ann's Bay ...	4.66	1.53	13	7	4.88
Seville ...	4.85	1.60	7	7	4.29
Richmond Estate ...	4.93	1.10	7	10	4.33
Llandovery ...	5.18	1.72	7	7	4.57
Southfield, St. Ann ...	...	...	...	...	...
Ballintoy ...	...	...	...	...	...
Brown's Town ...	2.49	1.75	7	4	4.74
Hyde Park ...	...	...	...	...	...
Dry Harbour ...	1.18	0.50	7	4	2.80
Chewmagna, St. Ann ...	2.05	0.85	7	6	3.21
Home Castle ...	2.35	1.50	7	3	3.16
Richmond Pen ...	...	...	...	..	...
Mahogany Hall ...	2.01	1.37	7	5	3.03
Barnstaple ...	0.95	0.60	7	4	...
Brampton Bryan ...	1.62	0.95	7	4	1.90
Bryan Castle ...	1.31	0.45	1	4	2.32
Braco ...	1.10	0.50	1	4	2.23
Arcadia ...	1.62	0.75	7	4	2.36
Lancaster ...	1.63	0.54	4	4	2.51
Harmony Hall ...	1.41	0.52	4	5	2.33
Vale Royal ...	1.36	0.76	7	3	2.72
Colchis Pen ...	0.95	0.40	1	4	1.74
Swanswick ...	1.15	0.60	7	4	...
Hyde ...	1.45	1.05	7	2	2.46
Georgia ...	1.22	0.60	7	3	2.56
Long Pond ...	...	...	...	...	...
Hyde Hall ...	1.20	0.55	7	4	2.52
Steelfield ...	...	...	...	...	...
Etingdon ...	1.35	0.67	7	3	2.17
Oxford ...	...	...	..	...	...
Cambridge ...	...	..	...	...	...
Lottery ...	1.10	0.70	7	5	2.01
Falmouth ...	1.16	0.45	7	5	1.81
Florence Hall ...	1.73	0.67	3	5	...
Holland Pen ...	...	...	...	...	...
Orange Valley ...	...	...	...	...	...
Kent ...	...	...	...	...	...
Gales Valley ...	0.50	0.50	5	1	2.05
Canaan ...	...	...	...	...	...
Content ...	...	...	...	...	...
Bellfield ...	0.65	0.35	6	4	...
Hampden ...	...	...	...	...	...
Moor Park ...	2.12	1.00	4	6	...
Success ...	...	...	...	...	...
Guilsbro ...	...	...	...	...	...
Cinnamon Hill ...	...	...	...	...	...
Rose Hall ...	...	...	...	...	...
Running Gut ...	...	...	...	...	...
Spring ...	...	...	...	...	...
Montego Bay ...	2.70	1.76	4	4	2.06
Catherine Hall ...	3.29	1.76	4	7	2.47
Fairfield, St. James ...	...	...	...	..	...
King Gate ...	...	...	...	...	...
Round Hill ...	5.75	1.00	6	7	1.41
Sandy Bay ...	3.87	0.95	4	8	2.10
Haughton Court .	...	...	...	...	...
Lucea ...	7.53	3.02	17	10	2.16
Westfield ...	4.04	1.80	5	8	...

Central Sub-Division.	February, 1912. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Rio Magno ...	...	...	...	...	...
Headworks, Rio Cobre ...	1.12	0.28	6	7	1.63
Linstead ...	0.56	0.24	7	3	1.96
Berkshire Hall ...	1.27	0.72	5	4	...
Point Hill ...	1.72	0.46	6	7	3.85
Brown's Hall .	1.08	0.55	6	4	2.66
Worthy Park ...	0.19	0.15	6	2	2.05
Crofts Hill ...	0.79	0.23	15	6	...
Chapelton ...	1.48	0.63	14	10	1.80
Mears ...	...	...	...	...	...
Danks Works ...	1.47	0.46	14	9	1.85
Savoy House ...	1.16	0.29	14	9	1.74
Trout Hall ...	1.31	0.58	11	6	...
Cave Valley ..	...	...	...	...	...
Means ...	2.16	...	...	...	...
West-Central Division.					
Whitney ...	1.55	0.50	11	4	...
Mocho, Clarendon ...	0.99	0.70	10	3	...
Baillieston ...	1.16	0.40	3	5	2.99
Brokenhurst ...	1.37	0.55	7	5	2.67
Christiana ...	1.16	0.34	7	7	2.75
Chudleigh ...	0.87	0.49	7	6	...
Shooter's Hill ...	0.72	0.21	6	6	..
Spitzbergen ...	1.14	0.48	7	6	...
Kendal, Manchester ...	0.88	0.26	21	6	2.59
Marshalls Pen ...	0.85	0.42	7	5	3.90
Mandeville ...	1.71	0.35	13	9	2.87
Carlton, Mandeville ...	1.15	0.26	3	9	...
Fairfield, Manchester ...	0.82	0.21	6	9	3.11
Berry Hill ...	0.35	0.11	7	4	...
Ulster Spring ...	2.40	0.95	5	6	2.79
Albert Town ...	3.94	1.05	2	7	...
Low River ...	3.23	1.80	3	5	...
Troy ...	2.50	1.50	4	5	2.82
Pepper ...	...	...	...	...	...
Fontabelle, Trel. ...	..	...	...	...	...
Windsor Pen, Trel. ...	1.68	0.60	7	9	2.36
Wallingford ...	2.48	0.86	3	5	...
Balaclava Police Station ...	1.72	0.72	7	4	2.29
Siloah ...	0.65	0.50	7	2	...
Santa Cruz ...	0.20	0.14	7	2	2.48
Appleton Estate ...	0.66	0.32	6	4	2.75
Maggotty ...	1.03	0.48	6	4	2.70
Spring Vale ...	1.68	0.66	4	5	2.34
Ipswich, Ry. St. ...	1.04	0.89	6	3	...
Springfield, St. Eliz. ...	...	..	...	...	...
Catadupa Rly. Station ...	...	...	...	...	...
Kempshot ...	3.34	2.08	4	11	3.00
Hazelymph ...	1.24	0.55	6	5	1.98
Kew Park ...	2.18	0.73	3	9	2.72
Copse ...	...	...	...	...	...
Ramble ...	3.00	0.71	15	9	...
Petersville ...	1.28	0.72	6	5	2.91
Darliston ...	1.53	0.69	6	7	3.63
Whithorn ...	4.01	1.35	6	12	3.40
Great Valley, Han. ...	5.00	1.00	8	9	3.18
Brownsville ...	...	...	...	...	...
Fort William ...	...	...	...	...	...
George's Plain ...	...	...	...	...	...
Fontabelle, Westm. ...	2.48	1.03	22	6	2.62
Belleisle ...	1.74	0.43	22	8	2.40
Morgan's Bridge ...	1.55	0.42	6	7	2.43
Glasgow Estate ...	...	...	...	...	...
King's Vale Police St. ...	3.43	0.90	3	9	2.73
Means —	1.83	...	...	...	...

Southern Division.	February, 1912. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	4.20	1.85	14	16	2.74
East Prospect ...	1.73	0.38	5	13	...
Morant Bay ...	1.26	0.73	6	6	2.03
Easington ...	1.63	1.06	6	7	1.52
Bull Bay ...	0.00	0.00	...	0	...
Bellevue ...	3.11	1.38	6	8	...
Gordon Town ...	2.19	1.00	6	6	1.76
Hope Gardens ...	1.51	0.82	6	6	1.19
King's House Gardens ...	1.90	0.98	6	6	1.55
Halfway Tree ...	1.02	1.02	6	1	0.88
Lunatic Asylum ...	0.81	0.56	6	4	0.54
Kingston S. Camp Road ...	0.83	0.69	6	4	...
" Parade Gard. ...	0.66	0.52	6	2	...
" P. W. Office ..	0.74	0.41	6	4	1.02
Plumb Point L. H. ...	0.45	0.44	6	2	0.80
Ballast Ground ...	1.01	0.39	6	3	...
Quarantine Station ...	1.54	0.58	15	4	...
Spanish Town ...	0.87	0.43	6	3	1.34
Hog Hole Pen ...	0.93	0.45	7	3	1.82
Hartlands ...	0.77	0.40	6	3	...
Old Harbour ...	0.95	0.55	6	4	1.81
May Pen ...	1.36	0.59	6	7	...
Hillside Estate ...	...	...	...	...	..
Amity Hall ...	...	...	...	...	...
Money Musk ...	...	...	...	...	...
Dunkley's, Vere ...	0.63	0.30	6	5	1.17
Dry River " ...	0.99	0.26	6	8	...
Caswell Hill " ...	1.52	0.42	1	5	...
Denbigh ...	...	...	...	...	...
Toll Gate ...	0.53	0.47	6	3	...
Woodleigh ...	0.40	0.40	6	1	...
New Yarmouth ...	0.60	0.30	6	2	1.02
Exeter, Vere ...	...	...	...	...	...
Rhymesbury ...	0.93	0.50	6	8	1.37
Springfield, Clarendon ...	...	...	...	...	...
Milk River ...	1.20	0.60	5	3	1.64
Clarendon Pk. Ry. St. ...	0.83	0.82	7	2	...
Victoria Town ...	0.15	0.15	7	1	1.91
Stone's Hope ...	1.48	0.60	6	5	2.22
Newport, Manchester ...	0.71	0.33	6	3	2.94
Great Valley, Man. ...	2.33	0.85	3	7	2.48
Alligator Pond ...	0.47	0.47	1	1	1.20
Lititz ...	0.57	0.24	7	5	...
Long Hill ...	...	...	...	...	...
Unity, Malvern ...	...	...	...	...	...
Bethlehem, St. Eliz. ...	0.86	0.58	6	4	2.55
Torrington ...	0.60	0.48	6	2	2.52
Pedro Plains ...	1.24	0.30	6	5	1.43
Black River ...	0.45	0.45	6	1	1.78
Font Hill ...	0.75	0.40	6	2	1.38
Mount Edgecombe ...	1.67	0.95	6	5	2.48
Bluefields ...	5.46	1.84	15	5	...
Sweet River ...	2.41	1.25	15	5	2.32
Windsor, Sav.-la-mar ...	2.11	0.93	6	6	2.34
Orchard, Sav.-la-mar ...	1.69	0.70	15	6	...
Sav.-la-mar ...	1.67	0.63	6	7	2.00
Retreat ...	1.36	0.80	22	5	2.36
White Hall ...	1.49	0.51	15	8	...
Negril Point L.H. ...	2.18	0.52	22	9	1.54
Negril Pol. Sta. ...	1.05	0.35	15	8	...
Means —	1.26	...	...	...	..

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

	February.	
	1912.	Average.
	In.	In.
North-Eastern Division ...	4.38	5.29
Northern ...	2.16	2.55
West-Central ...	1.83	2.76
Southern ...	1.26	1.67
The Island ...	2.34	3.07

The heaviest rainfall 16.04 inches was recorded at Fellowship.
No rain fell at Bull Bay.

Rainfall at Grand Cayman. January, 1912.	Total Fall.	Greatest fall. Amount.	Greatest fall. Date.	No. of days on which 0.01 or more fell.
East End ...	1.35	0.49	30	5
Bodden Town ...	0.68	0.29	15	6
George Town ...	1.50	0.47	5	8

Shocks of Earthquake in February, 1912.

Date.	Mean time.	Intensity.	Notes: where felt, etc.
	hr. min.		
	No earthquakes this month.		

Magnetic Variation. The variation of the compass at the Kempshot Observatory Feb. 11th to 15th was 2 26′ E.

Miles of Wind per diem registered at the Plumb Point Light House.

1912.	Mean.	Greatest.	Date.	Least.	Date.	Average direction (from) 7 a.m.	Average direction (from) 3 p.m.
February	266	615	24th	73.7	3rd	E.S.E.	S.E.

The Weather Office,
Halfway Tree.

MAXWELL HALL,
Govt. Meteorologist.

NEGRIL POINT LIGHT HOUSE. MEAN RESULTS FOR THE YEAR 1911. ELEVATION 33 FEET.

Month. 1911.	Bar Pressure.		Temperature.						Extremes for the month.			Dewpoint and humidity.			Rain-fall.	Wind, Miles of, per diem.	Wind from and miles per hour.						Clouds in tenths of the sky.						Weather Conditions.
																	7 a.m.		3 p.m.		11 p.m.		Lower		Middle.		Upper.		
	7 a.m	3 p.m.	Mean.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Min	Range.	7 a.m	3 p.m										7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	
	Ins.	Ins.													Ins.														
Jan. ..	30.024	29.961	75.5	71.9	81.0	84.4	66.7	17.7	86.7	63.5	23.2	65.6	81	68.0	65	1.57	256.5	NE by E	6.0	ENE	13.1	NE by E	6.5	1.0	1.6	0.5	3.9	2.2	0.7	Fine 14, cloudy 6, overcast 6, rain on 5 days, T L on 5 days, T or L on many days.
Feb. ..	29.998	29.944	75.4	71.2	81.8	84.5	66.1	18.4	89.4	62.5	26.9	64.0	78	66.4	60	0.22	219.5	NE	6.8	NE	11.8	NE	7.5	2.3	1.4	0.0	4.2	1.9	0.0	Fine 10, cloudy 4, fair 7, overcast 4, rain on 3 days.
March ..	30.024	29.978	76.2	72.7	82.5	85.3	66.2	19.1	89.5	62.2	27.3	66.0	80	68.1	62	0.06	235.7	NE by E	4.9	Var.	13.5	ENE	5.5	1.0	0.0	0.3	5.2	2.1	0.3	Fine 10, cloudy 16, fair 1, overcast 3, rain on 1 day, T on 1 day.
April ..	29.974	29.917	78.7	76.9	83.7	86.5	69.7	16.8	90.2	66.1	24.1	67.6	73	68.9	61	0.88	201.6	E	3.3	S by E	7.9	E by N	6.2	0.7	3.1	0.7	3.6	1.3	0.2	Fine 4, cloudy 14, fair 1 overcast 6, and rain on 5 days, T or L on 2 days.
May ..	29.908	29.871	78.9	78.9	82.5	85.2	70.8	14.4	88.5	67.9	20.6	70.2	74	71.9	70	4.84	211.1	E	1.8	SE	9.4	E	5.5	2.2	2.5	0.4	4.8	1.7	0.7	Fine 2, cloudy 9, fair 1, overcast 7, and rain on 12 days T L on 4 days, T or L on many days.
June ..	29.963	29.930	81.1	80.6	84.2	88.3	73.1	15.2	92.1	69.6	22.5	69.7	69	73.3	70	2.20	238.8	E by N	4.2	SE	10.0	ESE	9.0	1.9	3.0	1.3	4.6	3.6	0.8	Cloudy 10, fair 1, overcast 12, and rain on 7 days, T L on 10 days, T or L on many days.
July ..	29.997	29.958	81.2	80.4	84.4	89.3	72.7	16.6	92.2	67.6	24.6	69.8	70	72.5	68	2.99	194.7	E by N	7.3	S	9.7	ENE	6.6	1.4	1.9	0.2	6.9	4.0	4.0	Fine 1, cloudy 7, fair 1, overcast 7 and rain on 15 days, T L on 13 days, T or L many days.
Aug. .	29.947	29.907	80.9	79.6	84.2	89.5	72.3	17.2	91.5	70.0	21.5	70.4	73	73.4	70	5.17	187.7	E by N	7.1	SSE	10.2	ENE	7.0	0.3	3.4	0.1	5.9	5.5	0.0	Cloudy 7, fair 2, overcast 9 and rain on 13 days, T L on 10 days T or L many days.
Sept. ..	29.921	29.882	80.6	79.9	82.9	88.9	72.8	16.1	91.4	70.6	20.8	72.1	77	72.9	72	8.14	187.4	ENE	6.9	ENE	11.1	NE	7.0	0.7	4.1	0.0	3.6	5.4	0.8	Cloudy 6, overcast 7, and rain on 17 days, T L on 12 days, T or L on many days.
Oct. ..	29.899	29.848	80.6	79.3	84.8	87.9	72.4	15.5	90.3	69.8	20.5	72.9	81	72 8	67	6.59	175.4	E by N	6.2	Var.	8.6	E by N	6.3	0.3	0.9	0.7	5.9	2.9	1.3	Fine 4, cloudy 6, overcast 7, rain on 14 days, T L on 6 days, T or L on many days.
Nov. .	29.912	29.856	79.7	77.5	83.6	87.4	72.3	15.1	90.2	68.4	21.8	71.0	80	72.6	70	2.88	217.5	E	7.6	E	12.7	E by N	7.7	1.6	3.3	0.4	3.1	3.6	0.9	Fine 4, cloudy 6, overcast 6, and rain on 14 days, T L on 3 days, T or L many days, norther from 7 a.m on 30.
Dec. ..	29.931	29.871	77.1	73.2	82.6	84.9	69.8	15.1	88.5	65.6	22.9	67.2	81	69.7	65	2.98	240.6	ENE	8.9	Var.	13.6	ENE	9.0	1.9	2.2	1.4	2.9	0.4	0.7	Fine 6, cloudy 10, fair 2, overcast 5 and rain on 8 days, T or L on a few days.
Total ..	..	..	..	..	..	..	..	..	..	..	..	..		..	..	38.52														
Means ..	29.958	29.910	78.8	76.8	83.2	86.6	70.4	16.4	90.0	67.0	23.0	68.9	76	70.9	67	..	213.9		5.9		11.0		7.0	1.3	2.3	0.5	4.6	2.9	0.9	Rainfall for the year deficient

551.05
JH
23 May 12
OF THE
UNIVERSITY OF ILLINOIS

No. 402.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

MARCH, 1912.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House .	8	30.022	30.015	77.3	80.3	82.3	69.9	12.4	83.5	29th	63.0	19 h	20.5
Kingston .	24	29.983	29.933	72.5	81.8	86.5	69.5	17.0	88.5	16th	67.1	2nd	21.4
Kempshot .	1,773	29.989	29.945	68.1	73.5	77.9	66.7	11.2	81.4	7th	64.2	4th	17.2
Negril Point Light House	33	29.987	29.946	72.4	79.7	84.2	68.2	16.0	88.5	2nd	65.2	6th	23.3
Castleton Gardens .	496	...	...	65.0	81.0	87.0	54.0	33.0	91.0	*12th	54.0	21st	37.0
Hope Gardens† .	668	29.992	29.897	70.0	81.0	84.0	66.0	14.0	87.0	*14th	65.0	*4th	22.0
Stony Hill Reformatory .	1,400	...	...	68.0	78.0	80.5	63.6	16.9	87.0	7th	60.0	20th	27.0
Hill Gardens .	4,907	25.315	25.257	61.3	63.0	67.0	54.4	12.6	71.0	*29t	51.0	0th	20.0

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: (direction from and miles per hour.)				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House .	8	73.0	87	73.3	78	2.13	...	SE	8.1	SE	8.0	4.0	3.0	2.0	3.0	3.0	2.0
Kingston .	24	66.2	80	70.4	69	0.56	229	NE	5.1	SE	17.5	1.9	0.7	0.3	3.5	2.2	0.5
Kempshot .	1,773	64.0	87	67.1	80	7.66	134	E	6.6	E	4.2	2.4	0.8	0.6	7.2	0.6	0.0
Negril Point Light House‡	33	66.9	83	69.9	72	6.60	185	E by N	6.8	SSE	10.3	1.6	1.5	0.2	5.5	3.2	0.0
Castleton Gardens .	496	63.2	93	72.6	77	7.27	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens .	668	64.7	84	72.6	77	4.67	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory .	1,400	64.3	88	72.8	84	5.29	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens	4,907	57.3	87	57.4	81	4.33	...	...	...	...	..		...	...	...	..	...

* and on other days.

† Hope Gardens. Bar. read at 9 a.m. and 3 p.m.

‡ Negril Point Light House. Wind 11 p.m. E. by N. 6.0 ..

RAINFALL FOR MARCH, 1912.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to Weather Report, No. 256A. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	MARCH, 1912. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	...	...	..	...	...
Spring Valley ...	4.65	1.00	10	12	...
Ecclesdown ...	4.90	1.20	19	10	...
Bath ...	2.72	1.00	8	12	4.57
Boston ...	2.50	1.50	18	3	5.10
Moore Town ...	6.82	...	...	...	10.97
Port Antonio ...	4.45	1.03	7	11	4.90
Fellowship ...	6.12	1.70		14	8.09
Windsor, Portland ...	...	...	...	...	...
Johnson River Bridge ...	3.53	1.00	8	20	2.59
Fruitfull Vale ...	2.76	0.45	4	21	...
Cedar Valley, St. Thos. ...	6.52	3.20	8	13	3.30
Moy Hall, St. Thos. ...	4.41	2.45	9	9	3.01
Lennox ...	2.51	0.70	1	7	...
Hill Gardens ...	4.33	1.52	11	10	5.19
Buff Bay ...	1.48	0.35	17	8	5.79
Vinery ...	...	...	...	...	...
Windsor Castle, Port. ...	...	...	...	...	...
Greenvale, Portland ...	4.61	2.22	19	13	..
Mt. Holstein ...	4.43	1.76	19	14	9.53
Irish Town ...	3.06	2.00	18	4	...
Hardware Gap ...	3.15	...	...	...	4.50
Stony Hill Reform. ...	5.29	2.30	18	13	2.99
Castleton Gardens ...	7.27	3.00	26	14	4.93
Lawrence Tavern ...	5.60	3.20	26	6	2.69
Carew Castle ...	3.60	1.13	26	10	3.92
Agualta Vale ...	1.14	0.33	3	7	...
Water Valley ...	1.49	0.42	19	6	5.69
Albany, Ry. Station ..	2.70	1.90	19	4	...
Platfield ...	6.08	2.91	26	11	...
Richmond, St. Mary ...	4.17	0.94	19	13	3.75
Hampstead, St. Mary ...	5.12	2.36	8	9	...
Kendal, St. Mary ...	5.22	2.35	26	9	...
Gayle ...	3.80	1.44	20	11	4.70
Rio Hoe ...	4.01	0.74	24	12	3.64
Unity Valley ...	3.14	0.81	8	14	3.64
Moneague ...	3.19	0.86	8	10	3.03
Union Hill ...	...	...	...	...	...
Claremont ...	1.88	0.71	4	5	3.43
Albion, St. Ann ...	3.31	0.94	25	13	3.61
Averham Park ...	2.17	0.37	8	9	3.81
Means ...	4.00	..	...	...	...

NORTHERN DIVISION.	MARCH, 1912. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	2.14	0.42	18	10	3.19
Ocho Rios ...	0.73	0.38	20	3	3.54
Bogue, Ocho Rios ...	3.54	0.82	20	10	...
Arthurs Seat ...	...	...	...	...	...
Drax Hall ...	1.65	0.35	19	10	3.21
Liberty Hill ...	3.58	1.28	26	9	...
St. Ann's Bay ...	2.45	0.50	26	12	2.40
Seville ...	2.54	0.65	1	9	3.07
Richmond Estate ...	3.85	1.42	20	9	2.63
Llandovery ...	3.93	1.61	26	6	2.80
Southfield, St. Ann ...	...	...	...	...	...
Ballintoy ...	...	...	...	...	...
Brown's Town ...	2.91	1.00	8	8	2.99
Hyde Park ...	...	...	...	...	...
Dry Harbour ...	2.61	0.95	26	8	1.56
Chewmagna, St. Ann ...	3.27	1.00	11	10	3.37
Home Castle ...	5.95	2.00	26	8	2.56
Richmond Pen ...	...	...	...	..	...
Mahogany Hall ...	...	...	...	...	...
Barnstaple ...	6.25	1.40	8	9	...
Brampton Bryan ...	5.04	1.37	8	9	1.88
Bryan Castle ...	5.40	2.50	8	8	1.88
Braco ...	4.65	2.45	8	9	1.62
Arcadia ...	5.24	1.85	8	11	1.84
Lancaster ...	4.64	2.44	8	8	1.92
Harmony Hall ...	4.62	2.74	8	10	1.74
Vale Royal ...	5.74	1.77	8	8	2.28
Colchis Pen ...	3.86	0.85	9	11	2.02
Swanswick ...	4.15	1.00	9	9	...
Hyde ...	3.10	2.55	9	5	2.68
Georgia ...	...	...	...	...	...
Long Pond ...	3.70	0.84	8	7	2.18
Hyde Hall ...	...	...	...	...	...
Steelfield ...	3.98	1.29	8	7	2.17
Etingdon ...	...	...	...	...	...
Oxford ...	...	...	..	...	...
Cambridge ...	...	..	...	...	...
Lottery ...	1.90	0.55	26	7	2.00
Falmouth ...	1.87	0.59	1	7	1.76
Florence Hall ...	1.25	0.65	8	13	...
Holland Pen ...	...	...	...	...	...
Orange Valley ...	...	...	...	...	...
Kent ...	1.56	0.53	24	6	1.80
Gales Valley ...	3.62	1.00	26	7	2.35
Canaan ...	...	...	...	...	...
Content ...	2.10	0.80	26	4	2.17
Bellfield ...	2.08	0.89	24	6	...
Hampden ...	...	...	...	...	...
Moor Park ...	2.22	1.06	26	5	...
Success ...	0.95	0.40	24	4	1.92
Guilsbro ...	...	...	...	...	...
Cinnamon Hill ...	1.10	0.90	8	2	1.76
Rose Hall ...	1.39	0 90	8	4	1.59
Running Gut ...	2.29	1.70	8	5	1.59
Spring ...	...	...	...	...	...
Montego Bay ...	2.05	0.87	9	4	1.58
Catherine Hall ...	2.28	0.77	26	7	1.84
King Gate ...	...	...	..	...	...
Round Hill ...	...	...	...	...	...
Sandy Bay ...	4.99	1.15	26	10	2.68
Haughton Court ...	...	...	...	...	...
Lucea ...	7.78	4.20	26	12	2.33
Westfield ...	...	...	...	...	...

CENTRAL SUB-DIVISION.	MARCH, 1912. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Rio Magno ...	...	...	...	...	...
Headworks, Rio Cobre ...	4.68	3.04	18	6	2.84
Linstead ...	2.50	0.80	26	7	3.06
Berkshire Hall ...	4.41	1.13	19	15	...
Point Hill ...	3.87	0.64	26	15	5.25
Brown's Hall .	2.99	0.74	17	9	4.49
Worthy Park ...	3.93	1.02	10	7	2.84
Crofts Hill ...	4.37	2.11	19	13	...
Chapelton ...	3.62	0.83	8	15	2.70
Mears ...	...	...	...	...	...
Danks Works ...	5.08	0.90	10	16	3.26
Savoy House ...	5.02	1.09	10	18	4.07
Trout Hall ...	5.72	1.65	19	14	...
Cave Valley ..	5.15	1.80	16	...	...
Greenock ...	5.36	1.80	16	...	...
Means ...	3.45	...	...	...	...
WEST-CENTRAL DIVISION.					
Whitney ...	5.30	0.95	25	13	...
Mocho, Clarendon ...	...	...	...	...	...
Baillieston ...	4.68	1.87	19	11	4.64
Brokenhurst ...	13.35	3.10	6	15	2.70
Christiana ...	8.42	2.50	18	11	4.06
Chudleigh ...	7.95	3.65	18	10	...
Shooter's Hill ...	2.78	0.36	19	16	..
Spitzbergen ...	5.17	1.25	18	12	...
Kendal, Manchester ...	2.84	0.56	8	18	3.44
Marshalls Pen ...	6.19	1.70	8	16	3.85
Mandeville ...	8.67	1.93	8	18	4.28
Carlton, Mandeville ...	8.07	1.88	8	19	...
Berry Hill ...	8.48	2.60	8	14	...
Fairfield, Manchester ...	6.01	1.49	8	19	3.84
Ulster Spring ...	...	...	...	...	...
Albert Town ...	5.17	1.12	12	12	...
Low River ...	7.39	2.50	11	9	...
Troy ...	9.00	2.50	19	9	6.17
Fontabelle, Trel. ...	...	...	...	...	...
Windsor Pen, Trel. ...	4.25	1.08	9	12	3.07
Wallingford ...	7.37	1.82	13	10	...
Balaclava Police Station ...	6.59	2.16	18	8	4.74
Siloah ...	5.94	1.40	18	12	...
Santa Cruz ...	8.20	2.79	18	15	4.26
Appleton Estate ...	6.62	1.66	18	12	5.47
Maggotty ...	8.05	1.90	18	17	5.80
Spring Vale ...	7.26	1.45	26	15	2.92
Ipswich, Ry. St. ...	12.04	3.11	22	20	...
Springfield, St. Eliz. ...	...	.	...	...	...
Catadupa Rly. Station ...	...	...	...	...	...
Kempshot ...	7.66	2.70	25	18	3.00
Hazelymph ...	7.27	1.45	9	14	3.64
Kew Park ...	6.98	2.62	9	18	4.10
Copse ...	...	...	...	...	...
Ramble ...	6.95	1.73	23	12	...
Petersville ...	6.05	1.16	16	17	5.18
Darliston ...	7.69	1.75	19	17	6.54
Whithorn ...	4.98	0.80	26	16	5.87
Great Valley, Han. ...	...	...	...	...	...
Brownsville ...	...	...	...	...	...
Fort William ...	...	...	...	...	...
George's Plain ...	...	...	...	...	...
Fontabelle, Westm. ...	10.83	2.01	11	17	3.94
Belleisle ...	13.27	2.94	11	14	3.38
Morgan's Bridge ...	11.50	2.31	25	18	4.75
Glasgow Estate ...	6.13	1.41	21	12	7.95
King's Vale Police St. ...	8.02	1.88	26	17	4.91
Means ...	7.61	...	...	...	...

SOUTHERN DIVISION.	MARCH, 1912. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	2.13	0.90	10	13	2.11
East Prospect ...	1.89	0.66	9	18	...
Morant Bay ...	2.65	0.46	25	15	1.79
Easington ...	4.57	1.15	8	15	2.94
Bull Bay ...	1.79	1.53	18	2	...
Bellevue ...	5.92	1.48	17	10	...
Gordon Town ...	3.72	1.75	18	6	1.54
Hope Gardens ...	4.76	1.83	18	11	1.90
King's House Gardens ...	5.00	2.16	18	12	1.26
Halfway Tree ...	3.17	2.57	18	2	1.06
Lunatic Asylum ...	0.74	0.30	18	4	0.97
Kingston S. Camp Road ...	0.98	0.62	18	6	...
" Parade Gard. ...	0.90	0.60	...	3	.
" P. W. Office ..	0.56	0.40	18	4	1.05
Plumb Point L. H. ...	1.21	0.45	8	9	0.91
Ballast Ground ...	4.92	3.72	18	3	...
Quarantine Station ...	0.62	0.41	18	3	...
Spanish Town ...	1.30	0.75	18	6	2.10
Hog Hole Pen ...	1.09	1.09	18	1	2.11
Hartlands ...	0.86	0.38	8	3	...
Old Harbour ...	2.97	1.40	19	6	2.20
May Pen ...	5.30	2.08	17	10	2.01
Hillside Estate ...	...	...	...	...	...
Amity Hall ...	...	...	...	...	...
Money Musk ...	...	...	...	...	...
Dunkley's, Vere ...	11.19	1.24	7	10	1.49
Dry River " ...	3.88	1.36	8	8	...
Caswell Hill " ...	4.71	1.97	8	8	...
Denbigh ...	...	...	...	...	...
Toll Gate ...	2.99	0.61	21	14	...
Woodleigh ...	...	...	...	...	...
New Yarmouth ...	4.46	1.47	8	7	1.26
Exeter, Vere ...	3.27	1.42	8	10	...
Rhymesbury ...	4.90	1.48	7	14	2.11
Milk River ...	5.65	1.70	7	9	1.56
Clarendon Pk. Ry. St. ...	3.70	1.20	21	9	...
Victoria Town ...	6.35	1.40	7	10	2.14
Stone's Hope ...	10.30	5.40	8	10	2.64
Newport, Manchester ...	8.84	4.34	7	8	3.03
Great Valley, Man. ...	4.81	1.75	8	12	2.23
Alligator Pond ...	1.27	0.30	...	5	1.73
Lititz ...	1.90	0.68	18	8	...
Unity, Malvern ...	...	...	...	...	...
Bethlehem, St. Eliz. ...	4.15	1.85	19	13	4.25
Torrington ...	2.59	1.50	18	4	...
Pedro Plains ...	1.73	1.52	18	3	2.34
Black River ...	4.93	1.89	18	14	2.59
Font Hill ...	4.40	1.00	17	11	4.09
Mount Edgecombe ...	5.75	1.74	21	18	4.10
Bluefields ...	8.23	1.02	26	14	...
Sweet River ...	6.98	1.36	26	5	3.54
Windsor, Sav.-la-mar ...	7.12	2.17	26	12	2.90
Orchard, Sav.-la-mar ...	8.69	2.45	26	15	...
Sav.-la-mar ...	5.59	1.60	26	14	2.63
Retreat ...	7.18	1.10	20	14	3.28
White Hall ...	6.26	1.18	15	23	...
Negril Point L.H. ...	6.60	1.49	15	21	2.34
Negril Pol. Sta. ...	4.56	0.90	25	16	...
Means ...	4.44	...	...	..	..

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

——	March. 1912.	March. Average.
	In.	In.
North-Eastern Division ...	4.00	4.61
Northern ...	3.45	2.36
West-Central ...	7.61	4.18
Southern ...	4.44	2.22
The Island ...	4.88	3.34

The heaviest rainfall 13.35 inches was recorded at Brokenhurst in the west-central division.

The smallest 0.56 was recorded at the Kingston Public Works Office.

Falls of hail are reported from Hope Gardens and S. Camp Road at 1.30 p.m. on 20th and at Mt. Edgecombe on the 21st.

Rainfall at Grand Cayman. February, 1912.	Total Fall.	Greatest fall. Amount.	Greatest fall. Date.	No. of days on which 0.01 or more fell.
East End ...	1.12	0.47	10	5
Bodden Town ...	1.06	0.35	7	7
George Town ...	1.75	0.41	11	11

Shocks of Earthquake in March, 1912.

Date.	Mean time. hr.	Mean time. min.	Intensity.	Notes: where felt, etc.
7th	11	58 p.m.	I	Siloah and Great Valley (Hanover) double shock. Distinct separation.
8th	12	2 a.m.	II	Glengoffe, St. Mary
8th	12	10 a.m.	I	Montego Bay, Adelphi and Windsor Pen, (Trel.)
24th	2	30 p.m.	I	Yallahs
28th	12	45 a.m.	I	Kingston and Mt. Edgecombe.
28th	12	2 a.m.	I	Mt. Holstein & Siloah.

Magnetic Variation. The variation of the compass at the Kempshot Observatory in March was 2° 26′ E.

Miles of Wind per diem registered at the Plumb Point Light House.

1912.	Mean.	Greatest.	Date.	Least.	Date.	Average direction (from) 7 a.m.	Average direction (from) 3 p.m.
March	295	506	23rd	113	20t	S.E.	S.E.

It has been found necessary to reprint the annual return for 1911 from the Morant Pt. Light House, and the following table replaces that which appeared in the last Weather Report for February.

The Weather Office,

Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

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No. 403.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

APRIL 1912.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House	8	30.021	29.967	77.8	81.6	83.6	69.5	14.1	85.6	26th	61.0	4th	24.6
Kingston	24	29.990	29.936	75.6	83.5	87.7	70.7	17.0	90.5	5th	68.1	7th	22.4
Kempshot	1,773	29.998	29.936	70.1	76.4	80.3	67.7	12.6	84.4	19th	65.8	11th	18.6
Negril Point Light House	33	30.004	29.943	76.6	83.0	85.4	70.1	15.3	87.4	26th	67.5	2nd	19.9
Castleton Gardens	496	...	...	67.1	82.9	88.8	57.7	21.1	93.0	20th	55.0	*2nd	38.0
Hope Gardens†	668	30.005	29.923	71.9	82.1	85.5	67.6	17.9	89.0	26th	66.0	*6th	23.0
Stony Hill Reformatory	1,400	...	...	70.0	80.0	82.2	64.3	17.9	86.0	*19th	62.0	*1st	24.0
Hill Gardens	4,907	25.336	25.272	62.5	63.1	68.2	54.8	13.4	72.0	19th	53.0	*1st	19.0

Stations.	Elevation.	Dew Point and Humidity.				Rainfall	Wind per diem.	Wind: (direction from and miles per hour.)				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House	8	73.3	86	73.8	78	2.53	357	SE	10.2	SE	7.6	4.9	2.9	2.4	3.8	2.9	2.9
Kingston	24	67.9	77	70.2	64	0.51	201	NNE	3.7	SE	14.9	1.0	0.7	0.4	4.2	2.0	0.5
Kempshot	1,773	57.8	65	67.2	73	1.04	122	E	4.8	Var.	4.4	2.8	0.3	0.7	2.2	4.2	0.3
Negril Point Light House‡	33	69.1	78	70.2	66	1.49	185	ENE	6 2	S	10.4	0.7	0.8	0.8	2.7	5.6	0.0
Castleton Gardens	496	69.9	93	71.5	77	3.36	...	...	...	...	...	...	...	...	...	...	..
Hope Gardens	668	64.2	76	72.4	72	1.27	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory	1,400	67.4	91	76.5	89	2.97	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens	4,907	57.0	81	59.9	92	4.76	...	...	...	...	...		...	...	...	..	...

* and on other days.

† Hope Gardens. Bar. read at 9 a.m. and 3 p.m.

‡ Negril Point Light House. Wind 11 p.m. E. 6.8

RAINFALL FOR APRIL, 1912.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to Weather Report, No. 256A. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

APRIL, 1912.

NORTH-EASTERN DIVISION.	Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	...	...	..	...	..
Spring Valley .	3.23	0.90	27	11	..
Ecclesdown ...	5.05	0.90	27	13	...
Bath ...	10.46	2.72	6	12	5.65
Boston ...	2.80	0.90	26	5	5.68
Moore Town ...	7.48	...	...	...	9.77
Port Antonio ...	2.56	0.94	27	4	6.27
Fellowship ...	4.50	1.21	5	13	9.24
Windsor, Portland ...	4.30	1.50	6	6	...
Johnson River Bridge ...	4.20	0.71	18	14	4.38
Fruitfull Vale ...	3.88	0.71	27	15	...
Cedar Valley, St. Thos. ...	2.55	1.10	5	8	3.94
Moy Hall, St. Thos. ...	2.69	1.45	6	7	3.71
Lennox ...	1.70	0.60	5	6	..
Hill Gardens ...	4.76	3.33	6	10	6.09
Buff Bay ...	1.71	0.52	5	6	5.73
Vinery ...	...	...	...	...	...
Windsor Castle, Port. ...	...	...	...	...	...
Greenvale, Portland ...	6.08	1.75	6	13	...
Mt. Holstein ...	6.46	3.48	5	14	6.00
Irish Town ..	3.31	1.00	27	5	...
Hardware Gap ...	2.45	...	...	...	5.86
Stony Hill Reform. ...	2.97	1.60	17	8	5.24
Castleton Gardens ...	3.30	1.50	5	11	6.80
Lawrence Tavern ...	1.30	0.60	28	3	4.24
Carew Castle ..	1.12	0.40	27	6	5.05
Agualta Vale ...	1.16	0.45	26	4	...
Water Valley ...	0.67	0.50	26	3	4.78
Albany, Ry. Station ..	0.50	0.50	26	1	...
Platfield ...	2.05	0.60	18	6	...
Richmond, St. Mary ..	2.33	0.60	28	10	4.54
Hampstead, St. Mary ...	2.97	0.83	5	6	...
Kendal, St. Mary ...	2.74	0.63	17	8	...
Gayle ...	3.49	1.20	18	7	4.89
Rio Hoe ...	4.22	0.83	29	10	4.38
Unity Valley ...	4.20	0.90	29	11	4.61
Moneague ...	4.02	0.90	27	12	4.04
Union Hill ...	...	...	...	...	...
Claremont ...	3.11	1.14	5	7	3.80
Albion, St. Ann ...	3.56	1.15	29	10	4.38
Averham Park ...	4.06	1.55	5	7	4.73
Means ..	3.64	..	...	...	...

APRIL, 1912.

NORTHERN DIVISION.	Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	2.57	1.12	27	9	3.88
Ocho Rios ...	0.72	0.37	26	3	2.83
Bogue, Ocho Rios ...	1.04	0.35	6	4	...
Arthurs Seat ...	...	...	...	...	...
Drax Hall ...	1.55	0.40	4	7	3.21
Liberty Hill ...	1.65	0.53	5	6	...
St. Ann's Bay ...	1.89	0.74	5	5	3.00
Seville ...	2.12	0.43	4	7	2.79
Richmond Estate ...	1.34	0.61	5	4	3.38
Llandovery ...	1.04	0.25	3	5	3.39
Southfield, St. Ann ...	...	...	...	...	...
Ballintoy ...	...	...	...	...	...
Brown's Town ...	2.20	1.34	26	6	3.28
Hyde Park ...	...	...	...	...	...
Dry Harbour ...	0.65	0.30	5	5	1.91
Chewmagna, St. Ann ...	2.40	0.67	8	8	2.87
Home Castle ...	1.10	0.40	27	3	3.23
Richmond Pen ...	...	...	...	..	...
Mahogany Hall ...	1.42	0.53	26	6	3.80
Barnstaple ...	1.40	0.40	5	6	...
Brampton Bryan ...	1.02	0.72	5	3	2.13
Bryan Castle ...	0.94	0.55	5	5	2.12
Braco ...	0.50	0.25	5	2	2.21
Arcadia ...	0.75	0.46	5	4	2.28
Lancaster ...	0.64	0.30	5	2	2.26
Harmony Hall ...	0.41	0.24	5	4	2.07
Vale Royal ...	1.06	0.50	5	5	2.84
Colchis Pen ...	0.17	0.10	27	2	3.08
Swanswick ...	1.75	0.60	5	6	...
Hyde ...	...	...	...	...	...
Georgia ..	0.68	0.40	5	3	...
Long Pond ..	1.09	0.37	6	7	1.58
Hyde Hall ...	0.72	0.35	5	2	..
Steelfield ..	0.97	0.48	6	5	2.41
Etingdon ..	0.50	0.35	5	3	...
Oxford ...	...	...	..	...	...
Cambridge ..	..	..	..	...	...
Lottery .	0.45	0.20	5	3	2.30
Falmouth	0.08	0.08	26	1	2.20
Florence Hall ...	..	...	...	...	...
Holland Pen ...	...	..	...	...	...
Orange Valley ...	...	...	...	...	.
Kent ...	0.17	0.14	19	2	2.39
Gales Valley ...	1.60	1.10	29	2	2.37
Canaan ...	...	...	...	...	...
Content ...	0.10	0.10	19	1	2.35
Bellfield ...	0.53	0.21	29	4	..
Hampden ...	...	...	...	...	...
Moor Park ...	0.58	0.23	27	5	...
Success ...	..	...	...	...	...
Guilsbro ...	...	...	...	...	...
Cinnamon Hill ...	...	...	...	..	...
Rose Hall ...	...	...	...	...	...
Running Gut ...	...	...	..	...	...
Spring ...	...	...	...	...	...
Montego Bay ...	0.13	0.13	6	1	3.71
Catherine Hall ...	0.21	0.16	29	2	4.16
King Gate ...	...	...	.	...	...
Round Hill ...	1.20	0.50	29	3	2.68
Sandy Bay ...	1.08	0.55	21	4	4.02
Haughton Court .	...	...	...	...	...
Lucea ...	1.04	0.34	21	7	4.07
Westfield ...	...	...	...	...	...

APRIL, 1912.

CENTRAL SUB-DIVISION.	Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Rio Magno ...	3.50	0.80	28	8	...
Headworks, Rio Cobre ...	1.10	1.00	27	3	3.62
Linstead ...	0.73	1.40	8	3	4.43
Berkshire Hall ...	3.12	0.95	21	9	...
Point Hill ..	1.22	0.40	27	7	6.07
Brown's Hall .	1.57	0.49	27	6	4.17
Worthy Park ..	1.68	0.65	27	6	3.44
Crofts Hill ..	1.03	0.39	3	4	...
Chapelton ..	0.52	0.15	29	7	3.57
Mears ...	1.38	0.65	9	7	...
Danks Works ...	0.82	0.19	16	8	4.69
Savoy House ...	0.86	0.16	27	9	4.09
Trout Hall ...	0.63	0.18	26	7	...
Cave Valley ..	1.20	..	...	...	4.94
Greenock ...	1.32	...	...	...	...
Means ...	1.14	..	...	...	...
WEST-CENTRAL DIVISION.					
Whitney ...	2.60	1.10	27	4	...
Mocho, Clarendon ...	1.32	0.83	27	4	..
Baillieston ...	1.70	0.53	3	6	5.28
Brokenhurst ...	2.82	0.72	8	7	5.25
Christiana ...	1.41	0.48	27	5	8.10
Chudleigh ...	0.97	0.15	13	10	...
Shooter's Hill ...	1.91	0.57	8	9	..
Spitzbergen ...	1.67	0.57	4	11	...
Kendal, Manchester ...	2.39	0.59	8	9	7.44
Marshalls Pen ...	3.00	1.00	5	6	5.90
Mandeville ...	1.47	0.60	8	7	5.96
Carlton, Mandeville ...	1.51	0.50	8	11	..
Berry Hill ...	2.20	0.72	8	9	...
Fairfield, Manchester ...	3.19	1.40	4	11	6.46
Ulster Spring ...	2.02	0.60	23	5	6.20
Albert Town ...	3.79	0.92	17	8	...
Low River ...	1.88	0.76	10	6	...
Troy ...	3.80	1.50	20	7	9.62
Pepper ...	...	...	...	...	.
Fontabelle, Trel. ...	...	...	...	...	...
Windsor Pen, Trel. ...	1.67	0.50	19	9	6.10
Wallingford ...	3.00	1.13	14	12	...
Balaclava Police Station ...	2.07	0.81	14	7	9.66
Siloah ...	2.30	0.50	12	9	...
Santa Cruz ...	4.72	1.50	4	12	9.34
Appleton Estate ...	2.11	0.33	16	11	9.67
Maggotty ...	2.97	1.20	27	11	9.39
Spring Vale ...	3.18	0.87	21	8	5.44
Ipswich, Ry. St. ...	3.27	0.82	25	11	...
Springfield, St. Eliz. ...	...	.	...	...	...
Catadupa Rly. Station ...	...	...	...	...	...
Kempshot ...	1.04	0.45	21	10	5.54
Hazelymph ...	1.10	0.32	18	7	6.04
Kew Park ...	3.09	1.15	20	12	8.27
Copse ...	...	...	...	...	...
Ramble ...	5.93	1.67	8	9	...
Petersville ...	3.65	0.89	27	13	7.35
Darliston ...	4.20	1.00	25	11	11.40
Whithorn ...	...	...	...	...	...
Great Valley, Han. ...	2.15	0.90	29	6	7.62
Brownsville ...	..	...	...	...	...
Fort William ...	...	...	...	...	...
George's Plain ...	...	...	...	...	...
Fontabelle, Westm. ...	2.06	1.03	28	5	5.94
Belleisle ...	2.56	1.00	22	7	6.98
Morgan's Bridge ...	...	...	...	...	...
Glasgow Estate ...	...	...	...	...	...
King's Vale Police St. ...	6.60	0.34	21	7	5.90
Means ...	2.71	...	...	...	...

APRIL, 1912.

SOUTHERN DIVISION.	Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average
	In.	In.			In.
Morant Point L. H. ..	2.53	0.80	7	12	2.99
East Prospect ...	2.00	0.66	27	10	...
Morant Bay ...	2.07	0.75	5	8	2.55
Easington ..	1.75	0.41	5	8	1.73
Bull Bay ..	0.00	...	..	...	0.85
Bellevue ..	1.45	0.75	5	5	...
Gordon Town ..	1.64	0.65	27	5	3.22
Hope Gardens ...	1.27	0.48	17	8	2.84
King's House Gardens ..	1.48	0.76	27	8	2.48
Halfway Tree ...	0.00	..	...	...	1.63
Lunatic Asylum ...	0.33	0.22	27	4	1.07
Kingston S. Camp Road ...	0.49	0.32	27	5	..
" Parade Gard. ...	0.47	0.32	...	2	...
" P. W. Office ..	0.51	0.23	30	5	1.01
Plumb Point L. H. ...	0.20	0.11	27	4	0.99
Ballast Ground ...	0.25	0.20	27	2	...
Quarantine Station . .	0.20	0.11	29	2	..
Spanish Town ...	0.67	0.30	9	6	2.30
Hog Hole Pen ...	1.09	0.51	10	4	2.96
Hartlands ...	0.64	0.32	5	3	...
Old Harbour ...	1.10	0.50	25	3	2.87
May Pen ..	0.67	0.31	29	4	2.92
Hillside Estate ...	...	.	...	...	...
Amity Hall ...	0.35	0.15	...	4	...
Money Musk ...	0.32	...	...	...	...
Dunkley's, Vere ...	0.92	0.70	9	2	2 16
Dry River " ..	1.42	0.58	10	5	...
Caswell Hill " ..	1.69	0.80	17	4	...
Denbigh ...	0.00	...	...	...	...
Toll Gate ...	0.91	0.28	26	8	...
Woodleigh ...	0.00	...	...	...	...
New Yarmouth ...	1.64	0.57	9	4	2.31
Exeter, Vere ...	...	...	.	...	...
Rhymesbury ...	0.29	0.13	6	4	2.11
Milk River ..	1.06	0.40	7	6	2.25
Clarendon Pk. Ry. St. ...	1.57	0.59	28	5	...
Victoria Town ...	1.58	0.70	29	3	3.83
Stone's Hope ...	1.22	0.68	8	4	4.13
Newport, Manchester ...	2.05	0.59	29	6	4.96
Great Valley, Man. ...	2.17	1.05	8	11	4.05
Alligator Pond ...	0.85	0.63	4	3	3.20
Lititz ...	1.88	0.66	4	9	...
Long Hill ...	1.83	0.65	4	9	7.60
Unity, Malvern ...	...	...	...	...	...
Bethlehem, St. Eliz. ...	2.18	0.70	4	12	6.30
Torrington ...	2.12	0.90	5	5	4.53
Pedro Plains ...	1.91	0.95	6	5	2.22
Black River ...	1.64	0.47	9	8	4.18
Font Hill ...	3.20	1.10	24	7	4.40
Mount Edgecombe ...	2.28	1.11	15	12	5.40
Bluefields ...	2.83	0.58	27	9	...
Sweet River ...	1.95	1.08	26	7	5.70
Windsor, Sav.-la-mar ...	2.09	0.76	25	9	4.99
Orchard, Sav.-la-mar ...	1.86	0.50	26	6	..
Sav.-la-mar ...	...	...	...	...	...
Retreat ...	1.67	0.76	27	6	5.07
White Hall ...	2.99	1.18	27	7	...
Negril Point L.H. ...	1.49	0.56	27	6	3.03
Negril Pol. Sta. ...	2.20	1.10	27	6	...
Means ...	1.36	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

	April.	
	1912.	Average.
	In.	In.
North-Eastern Division ...	3.64	5.31
Northern ...	1.14	3.05
West-Central ...	2.71	7.13
Southern ...	1.36	3.24
The Island ...	2.21	4.68

The heaviest rainfall 10.46 inches was recorded at Bath. No rain fell at Bull Bay and Halfway Tree.

Rainfall at Grand Cayman. March, 1912.	Total Fall.	Greatest fall. Amount.	Date.	No. of days on which 0.01 or more fell.
East End ...	1.23	0.50	30	7
Bodden Town ...	0.47	0.24	7	5
George Town ...	3.71	2.82	27	10

Shocks of Earthquake in April, 1912.

Date.	Mean time.	Intensity.	Notes: where felt, etc.
	hr. min.		
23rd	10 35 a.m.	I	Mt. Holstein E. 001. Rumbling sound.

Magnetic Variation. The variation of the compass at the Kempshot Observatory in April was 2 28′ E.

Miles of Wind per diem registered at the Plumb Point Light House.

1912.	Mean.	Greatest.	Date.	Least.	Date.	Average direction (from) 7 a.m.	3 p.m.
April							

Gorrigenda.—Weather Report No. 402 March, 1912. Southern Division. Rainfall at Dunkley's for 11.19 read 4.19. As announced in the Wather Report for March it has been found necessary to reprint the annual return for Morant Pt. Light House, for 1911, and it will be found on the following page.

The Weather Office,

Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

MORANT POINT LIGHT HOUSE. MEAN RESULTS FOR THE YEAR 1911.

Month.	Bar Pressure.		Temperature.					Extremes for Month.			Dewpoint and Humidity.				Rain-fall.	Direction of Wind and miles per hour.				Clouds in tenths					
																				Lower.		Middle.		Upper.	
	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min	Range	Max.	Min.	Range.	7 a.m.		3 p.m.			7 a.m.		3 p.m.		7 a.m.	3 p. m.	7 a.m.	3 p.m.	7 a.m.	3 p.m
															in.										
January	30.034	29.992	76.6	78.4	80.5	73.5	7.0	84.0	70.0	14.0	70.1	80.4	66.2	66.3	4.27	N.E	17.0	NE	16.3	1.5	0.9	2.2	2.2	2.2	2.2
February	30 008	29.969	76.0	77.8	79.9	73.2	6.7	81.5	68.0	13.5	71.7	86.5	70.5	78.3	1.57	NE	17.0	NE	17.0	1.4	0.8	2.6	2.1	2.2	2.1
March	30.027	29.992	73.3	78.5	80.5	69.3	11.2	83.0	61.0	22.0	67.6	82.3	70.2	76.0	0.33	NE	11.8	NE	13.0	1.0	1.0	2.4	1.7	2 0	1.9
April	29.969	29.927	76.5	80.5	82.6	72.5	10.1	85.0	66.0	19.0	69.7	79.5	73.6	80.0	1.66	NE	12.8	NE	14.6	0.8	0.9	2.2	2.0	2.4	2.3
May	29.916	29.879	78.5	81.6	83.9	73.0	10.9	86.0	68.0	18.0	73.1	83.9	74.8	80.0	11.45	NE	10.2	SE	11.9	1.7	1.5	2.1	2.5	2.5	3.1
June	29.990	29.959	81.4	83.4	84.8	77.7	7.1	86.0	71.0	15.0	76.0	84.5	77.6	82.9	2.91	ESE	19.4	ESE	18.8	1.4	1.4	3.0	2.6	2.6	2.7
July	30.009	29.980	81.7	83.6	85.2	78 2	7.0	86.5	74.5	12.0	75.5	81.4	76.0	78.2	2.29	ESE	17.7	ESE	17.7	2.0	1.5	2.6	2.5	2.9	3.0
August	29 956	29 910	81.5	84 4	86 0	77.8	8.2	87.5	71 0	16.5	77.5	87.8	78.6	82.9	3 52	E	12 4	F	16.0	1 2	1.0	2 3	2.2	3.0	3 0
September	29.928	29.891	81.7	85.2	86.9	77.3	9.6	88.5	71.0	17.5	76.5	84.8	77.8	78.6	4.40	E	12.0	E	14.2	1.1	0.9	2.7	2.4	2.8	3.0
October	29.878	29.862	79.8	84.3	86.4	75.5	10.9	87.8	66.5	21.3	75.2	85.7	75.2	75.7	4.43	E	9.9	E	11.5	0.8	0.7	2.5	2.4	2.5	2.9
November	29.929	29.872	81.1	83 1	84.7	76.2	8.5	86.5	71.0	15.5	75.6	81.6	76.9	83.6	7.68	E	14.6	E	14.6	1 6	1.0	2.8	2.6	2.6	2.7
December	29.942	29.896	78.2	80.6	82.2	74.3	7.9	84.0	62 5	21.5	74.0	74.9	87.1	83.0	5.08	E	19.4	E	20.4	1.6	1.4	2.6	2.6	2.4	2.3
Total	..	..	..	..	..	..	..	..	..	..	..	..	..	..	49.59	..	..	..	..	..	..	..	..	..	..
Means	29.966	29.930	78.9	81.8	83.6	74.9	8.7	85.4	68.4	17.0	73.5	82.8	75.4	78.8	..	E by N	14.5	E	15 5	1.3	1.1	2.5	2.3	2.5	2.6

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JAMAICA

WEATHER REPORT

FOR THE MONTH OF

MAY, 1912.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32 gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only Thermometers are exposed in Stevenson's Screens: their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

STATIONS.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House	8	29.937	29.886	80.3	83.5	84.8	75.4	9.4	86.0	*29th	68.0	*15th	18.0
Kingston	24	29.955	29.902	78.1	84.3	87.9	72.9	15.0	89.9	2nd	70.4	1st	19.5
Kempshot	1,773	29.965	29.923	72.0	75.4	80.9	68.4	12.5	83.5	1st	66.2	1st	17.3
Negril Point Light House	33	29.958	29.918	79.3	81.6	85.9	72.0	13.9	87.7	20th	69.9	*5th	17.8
Castleton Gardens	496	...	...	68.7	82.3	88.9	59.7	29.2	93.0	13th	56.0	27th	37.0
Hope Gardens†	668	29.962	29.874	76.1	85.0	88.7	68.3	18.4	90.0	*2nd	68.0	*8th	22.0
Stony Hill Reformatory	1,400	...	...	71.3	79.7	82.5	66.3	16.2	88.0	22nd	64.0	*1st	24.0
Hill Gardens	4,907	25.289	25.264	64.6	65.5	69.7	57.0	12.7	73.0	*9th	56.0	*1st	17.0

STATIONS.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: (direction from and miles per hour.)				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House	8	75.5	88	76.0	78	0.62	319	SE	8.0	SE	12.7	4.3	2.6	1.9	4.5	3.0	2.4
Kingston	24	69.3	74	72.4	68	0.27	244	NNE	4.3	SE	19.3	0.7	0.8	0.8	4.0	1.7	1.0
Kempshot	1,773	66.0	81	68.9	80	15.00	95	E	3.2	Var.	3.7	0.2	1.2	0.8	0.7	8.0	0.4
Negril Point Light House‡	33	71.7	78	73.5	77	8.12	188	ENE	5.5	SE	9.7	0.1	1.7	2.3	7.4	2.1	0.0
Castleton Gardens	496	57.1	75	62.8	87	12.41	...	...	...	...	...	...	...	...	...	...	..
Hope Gardens	668	64.5	66	70.1	61	1.93	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory	1,400	68.4	90	76.5	90	6.30	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens	4,907	57.1	75	62.8	87	2.00	...	...	...	...	..		...	...	...	..	...

* and on other days.

† Hope Gardens. Bar. read at 9 a.m. and 3 p.m.

‡ Negril Point Light House. Wind 11 p.m. E. 5.7

RAINFALL FOR MAY, 1912.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to Weather Report, No. 256A. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

North-Eastern Division.	May, 1912. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	...	...	..	...	...
Spring Valley .	4.61	1.08	5	11	...
Ecclesdown ...	6.48	1.25	5	10	..
Bath ...	3.53	1.25	31	9	12.75
Boston ...	2.88	1.00	18	3	16.55
Moore Town ...	5.70	...	...	..	10.96
Port Antonio ..	4.97	1.39	5	12	16.66
Fellowship ...	3.80	0.95	4	13	20.85
Windsor, Portland ...	...	...	..	...	...
Johnson River Bridge ...	3.69	1.87	20	12	9.52
Fruitfull Vale ...	2.43	0.75	23	9	...
Cedar Valley, St. Thos. ...	1.42	0.50	18	6	9.33
Moy Hall, St. Thos. ...	1.70	0.65	18	6	9.44
Lennox ...	2.00	0.50	2	3	.
Hill Gardens ...	2.00	0.78	11	9	10.71
Buff Bay ...	2.16	0.87	23	6	8.15
Vinery ...	1.11	0.71	23	2	...
Windsor Castle, Port. ...	1.12	0.87	23	2	...
Greenvale, Portland ...	2.25	1.56	5	6	..
Mt. Holstein ...	1.21	0.24	23	10	8.14
Irish Town ...	2.10	0.90	19	4	...
Hardware Gap ...	3.50	...	...	...	12.57
Stony Hill Reform. ...	6.30	1.90	19	13	9.73
Castleton Gardens ...	12.41	4.70	28	18	12.04
Lawrence Tavern ...	8.94	1.75	16	11	9.12
Carew Castle ..	7.94	1.31	25	16	9.23
Agualta Vale ...	1.21	0.52	28	4	...
Water Valley ...	0.91	0.32	24	5	7.23
Albany, Ry. Station ..	...	...	...	...	...
Platfield ...	9.85	2.92	17	13	...
Richmond, St. Mary ..	4.00	1.14	16	14	7.54
Hampstead, St. Mary ...	0.41	0.18	24	3	...
Kendal, St. Mary ...	8.70	3.45	17	13	...
Gayle ...	3.03	1.18	20	8	8.37
Rio Hoe ...	1.72	0.45	31	7	8.48
Unity Valley ...	2.80	0.78	31	7	9.99
Moneague ...	2.01	1.04	31	6	8.26
Union Hill ...	...	...	...	...	...
Claremont ...	1.60	0.57	5	4	7.34
Albion, St. Ann ...	3.77	1.05	5	6	8.46
Averham Park ...	3.09	1.21	5	8	8.25
Means ..	3.76	..	...	...	...

Northern Division.	May, 1912. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	1.27	0.34	20	7	6.61
Ocho Rios ...	0.72	0.60	20	2	5.20
Bogue Ocho Rios ...	0.99	0.60	20	4	...
Arthurs Seat ...	...	...	...	...	...
Drax Hall ...	1.55	0.75	20	4	7.10
Liberty Hill ...	2.34	0.94	5	5	...
St. Ann's Bay ...	1.22	0.60	20	5	5.64
Seville ...	1.43	0.64	20	4	7.18
Richmond Estate ...	1.70	1.14	4	2	7.42
Llandovery ...	1.54	0.94	20	2	7.11
Southfield, St. Ann ...	...	...	...	...	...
Ballintoy ...	...	...	...	...	...
Brown's Town ...	2.12	1.48	29	4	7.23
Hyde Park ...	...	...	...	...	...
Dry Harbour ...	1.35	1.13	4	4	5.04
Chewmagna, St. Ann ...	3.90	1.50	14	8	6.70
Home Castle ...	0.92	0.40	30	6	6.13
Richmond Pen ...	...	...	...	..	...
Mahogany Hall ...	5.26	1.06	16	10	8.81
Barnstaple ...	1.55	0.45	31	6	...
Brampton Bryan ...	2.97	1.42	4	5	5.72
Bryan Castle ...	2.20	1.05	4	5	5.49
Braco ...	0.90	0.50	4	4	4.90
Arcadia ...	2.03	1.08	4	5	4.98
Lancaster ...	1.35	0.90	...	2	5.40
Harmony Hall ...	0.77	0.52	4	2	4.88
Vale Royal ...	2.56	1.05	4	8	6.34
Colchis Pen ...	6.37	1.64	26	11	7.15
Swanswick ...	5.60	1.90	31	8	...
Hyde ...	6.00	2.40	29	8	7.92
Georgia ...	2.59	1.37	4	6	..
Long Pond ...	4.46	1.90	31	8	.
Hyde Hall ...	2.82	1.05	31	9	...
Steelfield ...	3.46	1.40	31	6	...
Etingdon ...	3.58	1.70	31	4	...
Oxford ...	...	...	..	...	...
Cambridge ...	...	..	...	...	...
Lottery ...	5.85	1.85	4	11	6.35
Falmouth ...	..	...	...	...	...
Florence Hall ...	3.21	1.00	16	9	...
Holland Pen ...	...	...	...	...	...
Orange Valley ...	...	...	...	...	...
Kent ...	1.73	0.80	4	6	...
Gales Valley ...	8.49	4.05	7	10	8.39
Canaan ...	...	...	...	...	...
Content ...	4.20	1.55	4	5	...
Bellfield ...	4.46	1.32	6	10	...
Hampden ...	...	...	...	...	...
Moor Park ...	5.77	1.50	5	7	...
Success ...	0.25	0.25	6	1	4.57
Guilsbro ...	...	...	...	...	...
Cinnamon Hill ...	0.70	0.30	6	4	5.28
Rose Hall ...	0.50	0.30	6	3	4.84
Running Gut ...	0.69	1.20	6	3	7.60
Spring ...	1.80	1.23	6	3	...
Montego Bay ...	6.21	1.97	18	8	7.60
Catherine Hall ...	7.07	2.20	18	13	8.69
King Gate ...	6.77	1.32	16	13	9.18
Round Hill ...	7.65	1.10	4	16	7.08
Sandy Bay ...	5.23	1.65	30	9	9.06
Haughton Court .	5.11	2.00	30	11	...
Lucea ...	5.14	1.65	18	8	8.09
Westfield ...	...	...	...	...	...

Central Sub-Division.	May, 1912. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Rio Magno ...	6.57	1.65	17	14	...
Headworks, Rio Cobre ...	1.52	1.00	19	2	7.71
Linstead ...	2.85	0.64	24	7	9.64
Berkshire Hall ...	3.42	0.75	20	15	...
Point Hill ...	2.83	1.22	23	9	12.80
Brown's Hall ...	3.11	1.23	19	8	8.76
Worthy Park ...	1.15	0.26	27	7	8.17
Crofts Hill ...	1.80	1.44	5	5	...
Chapelton ...	1.08	0.86	5	4	8.47
Mears ...	...	...	...	...	...
Danks Works ...	1.60	1.04	5	5	9.22
Savoy House ...	1.42	0.88	5	4	8.03
Trout Hall ...	4.60	2.10	5	9	...
Cave Valley ...	2.65	1.40	25	...	...
Greenock ...	2.42	1.25	25	...	...
Means ...	2.87	...	...	...	...
West-Central Division.					
Whitney ...	1.75	0.85	19	4	...
Mocho, Clarendon ...	...	...	...	...	...
Baillieston ...	2.69	1.42	5	7	10.41
Brokenhurst ...	1.05	0.60	19	3	10.02
Christiana ...	3.70	0.90	11	8	11.50
Chudleigh ...	2.00	1.26	14	7	...
Shooter's Hill ...	1.82	0.56	24	8	...
Spitzbergen ...	1.54	0.45	24	9	...
Kendal, Manchester ...	2.01	0.80	26	9	10.16
Marshalls Pen ...	0.85	0.40	26	5	10.01
Mandeville ...	0.72	0.37	20	4	11.17
Carlton, Mandeville ...	0.71	0.32	20	5	...
Berry Hill ...	1.14	0.66	24	4	...
Fairfield, Manchester ...	1.24	0.55	5	9	7.87
Ulster Spring ...	7.59	2.95	18	9	11.61
Albert Town ...	9.33	1.25	18	13	...
Low River ...	4.00	1.35	14	4	...
Troy ...	12.94	3.06	19	15	17.69
Pepper ...	...	...	...	...	...
Fontabelle, Trel. ...	...	...	...	...	...
Windsor Pen, Trel. ...	11.33	1.95	5	21	10.96
Wallingford ...	6.31	2.11	19	11	...
Balaclava Police Station ...	4.36	1.33	19	9	14.41
Siloah ...	14.98	4.15	19	13	...
Santa Cruz ...	2.81	1.00	19	4	12.81
Appleton Estate ...	13.14	4.28	19	14	1.
Maggotty ...	12.01	2.20	19	14	13.02
Spring Vale ...	11.00	2.51	5	15	13.57
Ipswich, Ry. St. ...	12.50	1.75	5	15	...
Springfield, St. Eliz. ...	...	.	...	...	...
Catadupa Rly. Station ...	15.02	3.30	7	24	...
Kempshot ...	15.00	2.87	30	21	10.37
Hazelymph ...	13.13	3.02	16	19	12.02
Kew Park ...	16.11	2.45	16	25	12.91
Copse ...	...	...	...	...	...
Ramble ...	12.94	2.22	18	20	...
Petersville ...	6.41	2.05	19	15	12.19
Darliston ...	20.60	2.28	18	22	16.10
Whithorn ...	13.29	1.25	31	21	14.88
Great Valley, Han. ...	8.05	1.60	26	14	14.22
Brownsville ...	...	...	...	...	...
Fort William ...	...	...	...	...	...
George's Plain ...	...	...	...	...	...
Fontabelle, Westm. ...	9.84	1.50	18	21	9.36
Belleisle ...	12.85	1.86	31	18	11.61
Morgan's Bridge ...	15.87	2.52	31	22	12.36
Glasgow Estate ...	12.31	2.03	30	22	13.32
King's Vale Police St. ...	13.27	2.45	21	20	9.76
Means ...	9.49	...	...	...	...

Southern Division.	May, 1912. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	0.62	0.18	21	10	10.76
East Prospect ...	2.47	0.64	31	11	...
Morant Bay ...	1.86	0.52	18	8	8.00
Easington ...	1.37	0.82	20	6	6.33
Bull Bay ...	..	...	...	...	...
Bellevue ...	0.33	0.33	21	1	...
Gordon Town ...	2.14	0.90	19	6	8.23
Hope Gardens ...	1.83	0.87	19	11	6.38
King's House Gardens ...	0.72	0.36	19	8	7.32
Halfway Tree ...	0.00	...	...	...	4.78
Lunatic Asylum ...	0.61	0.43	19	4	3.57
Kingston S. Camp Road ...	0.76	0.52	19	4	..
" Parade Gard. ...	0.60	0.45	...	2	...
" P. W. Office ..	0.27	0.17	19	3	4.63
Plumb Point L. H. ...	0.05	0.04	20	2	4.80
Ballast Ground ...	1.51	1.51	17	1	...
Quarantine Station ...	0.00	...	...	...	...
Spanish Town ...	0.10	0.10	19	1	5.77
Hog Hole Pen ...	0.26	0.26	20	1	6.79
Hartlands ...	0.00	...	...	...	...
Old Harbour ...	1.10	0.10	28	1	5.78
May Pen ...	...	...	...	...	...
Hillside Estate ...	...	...	...	...	...
Amity Hall ...	0.08	0.08	5	1	...
Money Musk ...	...	...	...	...	...
Dunkley's, Vere ...	0.00	...	...	...	4.50
Dry River " ...	0.01	0.01	30	1	...
Caswell Hill " ...	0.00	...	...	...	...
Denbigh ...	2.05	2.05	20	1	7.61
Toll Gate ...	0.00	...	...	...	...
Woodleigh ...	1.60	1.60	24	1	...
New Yarmouth ...	0.00	...	...	...	4.86
Exeter, Vere ...	...	...	..	...	...
Rhymesbury ...	0.02	0.02	24	1	5.89
Milk River ...	...	...	...	...	...
Clarendon Pk. Ry. St. ...	1.16	0.74	20	3	...
Victoria Town ...	0.25	0.13	24	2	9.18
Stone's Hope ...	0.39	0.20	24	2	9.30
Newport, Manchester ...	0.62	0.58	20	2	8.37
Great Valley, Man. ...	0.05	0.05	24	1	6.99
Alligator Pond ...	0.00	...	...	...	5.86
Lititz ...	0.20	0.20	24	1	...
Long Hill ...	0.94	0.42	15	6	10.24
Unity, Malvern ...	...	...	...	...	...
Bethlehem, St. Eliz. ...	0.55	0.18	26	5	7.64
Torrington ...	...	...	...	...	...
Pedro Plains ...	0.19	0.19	17	1	4.12
Black River ...	2.89	2.22	19	9	7.42
Font Hill ...	2.90	1.10	19	7	8.84
Mount Edgecombe ...	6.26	2.57	19	16	8.23
Bluefields ...	10.88	2.15	29	19	...
Sweet River ...	5.99	1.80	19	13	9.81
Windsor, Sav.-la-mar ...	7.33	2.20	30	14	9.46
Orchard, Sav.-la-mar ...	8.07	2.11	28	15	..
Sav.-la-mar ...	4.79	1.81	30	12	9.29
Retreat ...	10.68	3.40	19	12	9.09
White Hall ...	9.66	2.07	2	20	...
Negril Point L.H. ...	8.12	1.78	24	17	5.88
Negril Pol. Sta. ...	9.30	1.55	31	20	...
Means ...	2.29	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

	May.	
	1912.	Average.
	In.	In.
North-Eastern Division ...	3.76	10.82
Northern ...	2.86	7.07
West-Central ...	9.49	12.49
Southern ...	2.29	6.94
The Island ...	4.60	9.33

The heaviest rainfall 20.60 inches was recorded at Darliston in the west central division. Many places in the southern division had no rainfall

Rainfall at Grand Cayman. April, 1912.	Total Fall.	Greatest fall. Amount.	Greatest fall. Date.	No. of days on which 0.01 or more fell.
East End ...	1.26	0.44	25	6
Bodden Town ...	0.95	0.50	26	4
George Town ...	1.25	0.35	7	11

Shocks of Earthquake in May, 1912.

Date.	Mean time. hr.	Mean time. min.	Intensity.	Notes: where felt, etc.
15th	4	10 a.m.	I	Windsor Pen, double shock; Mt. Edgecombe Bluefields and Petersville.
16th	1	15 a.m.	I	Lititz, St. Eliz., N. & S., also Albion and Mt. Holstein
16th	1	30 a.m.	II	Chapelton and Falmouth double shock.
,,	,,	,,	II	Christiana, Black River and Maggotty duration 2 secs.
,,	,,	,,	III	Siloah and Windsor Pen (Trely) duration 6 secs.
,,	,,	,,	I	Bluefields and Petersville
18th	,,	,,	I	Mt. Holstein N. 006.

Magnetic Variation. The variation of the compass at the Kempshot Observatory in May was 2° 30' E.

Miles of Wind per diem registered at the Plumb Point Light House.

1912.	Mean.	Greatest.	Date.	Least.	Date.	Average direction (from) 7 a.m.	Average direction (from) 3 p.m.
May							

The Weather Office,
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

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No. 405.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

JUNE, 1912.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32 gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct fo[r] he small instruments used and for the small velocities measured.

Th amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part fracto-[cu]atus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar. Pressure. 7 a.m.	Bar. Pressure. 3 p.m.	Temperature. 7 a.m.	Temperature. 3 p.m.	Temperature. Max.	Temperature. Min.	Temperature. Range	Extreme Temperature. Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House	8	29.988	29.977	81.0	83.4	85.1	77.1	8.0	86.2	21st	71.1	1st	12.1
Kingston	24	29.970	29.926	79.7	86.3	89.1	75.2	14.6	92.0	30th	72.1	19th	19.9
Kempshot	1,773	29.979	29.936	72.6	77.3	81.5	70.0	11.5	84.6	5th	66.2	14th	18.4
Negril Point Light House	33	29.970	29.937	79.5	83.9	87.4	73.4	14.0	90.5	17th	69.6	19th	20.9
Castleton Gardens	496	...	...	70.0	86.7	91.0	60.0	31.0	96.0	26th	56.0	27th	40.0
Hope Gardens†	668	29.966	29.899	77.4	88.2	90.7	71.6	19.1	94.0	18th	69.0	18th	25.0
Stony Hill Reformatory	1,400	...	...	72.7	83.1	85.7	68.3	17.4	92.0	26th	65.0	*2nd	27.0
Hill Gardens	4,907	25.317	25.285	64.5	66.4	71.2	57.7	13.5	75.0	30th	56.0	10th	19.0

Stations.	Elevation.	Dew Point and Humidity. 7 a.m.		Dew Point and Humidity. 3 p.m.		Rainfall.	Wind per diem.	Wind: (direction from and miles per hour.) 7 a.m.		Wind: (direction from and miles per hour.) 3 p.m.		Amount of Cloud. Lower, Middle and Upper. 7 a.m.			Amount of Cloud. Lower, Middle and Upper. 3 p.m.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House	8	74.2	79	75.4	77	1.20	310	SE	10.7	SE	12.0	5.0	2.4	.22	4.3	2.7	2.3
Kingston	24	70.3	73	72.1	76	0.08	312	ESE	7.0	SE	25.7	1.1	1.5	1.8	3.0	1.1	1.0
Kempshot	1,773	66.5	80	69.3	76	7.55	131	E	5.0	E	3.0	0.0	0.7	2.8	0.3	7.0	0.7
Negril Point Light House‡	33	70.8	74	73.1	70	1.84	248	E by N	7.9	SE by E	14.6	0.3	1.6	3.9	2.6	5.4	1.3
Castleton Gardens	496	68.0	93	72.6	64	1.71	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens	668	65.5	68	68.2	59	0.09	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory	1,400	68.5	86	77.1	82	2.11	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens	4,907	58.5	78	61.2	84	1.59	...	..	...	...	..	..	..	..	...	..	...

* and on other days.

† Hope Gardens. Bar. read at 9 a.m. and 3 p.m.

‡ Negril Point Light House. Wind 11 p.m. E. 7.2

RAINFALL FOR JUNE, 1912.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to Weather Report, No. 256A. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

North-Eastern Division.	June, 1912. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	...	...	..	...	...
Spring Valley ...	5.59	1.55	9	14	...
Ecclesdown ...	9.67	2.14	9	15	...
Bath ...	8.46	1.06	3	14	13.29
Boston ...	3.28	1.00	9	4	16.35
Moore Town ...	4.23	...	...	...	25.57
Port Antonio ...	3.29	1.21	1	16	17.96
Fellowship ...	5.31	0.90	2	16	22.43
Windsor, Portland ...	...	...	..	...	...
Johnson River Bridge ...	6.69	1.25	1	18	19.17
Fruitfull Vale ...	3.33	0.80	1	13	...
Cedar Valley, St. Thos. ...	5.04	1.81	9	14	19.90
Moy Hall, St. Thos. ...	5.00	0.65	23	12	13.82
Lennox ...	1.72	0.70	21	6	...
Hill Gardens ...	1.59	0.68	21	5	8.11
Buff Bay ...	1.02	0.38	21	6	7.50
Vinery ...	0.37	0.37	14	1	...
Windsor Castle, Port. ...	1.41	0.45	21	6	...
Greenvale, Portland ...	2.35	1.67	14	9	..
Mt. Holstein ...	1.52	0.50	25	11	8.16
Irish Town ...	...	...	...	...	...
Hardware Gap ...	...	...	...	...	...
Stony Hill Reform. ...	2.11	1.53	18	9	7.47
Castleton Gardens ...	1.71	0.54	10	11	9.93
Lawrence Tavern ...	...	..	...	...	...
Carew Castle ...	1.84	1.17	18	4	10.47
Agualta Vale ...	0.10	0.10	13	1	...
Water Valley ...	0.79	0.69	14	2	6.01
Albany, Ry. Station ..	0.48	0.40	14	2	...
Platfield ...	2.49	0.96	1	8	...
Richmond, St. Mary ...	2.33	1.84	14	7	5.93
Hampstead, St. Mary ...	0.85	0.62	14	3	...
Kendal, St. Mary ...	1.81	0.64	3	6	...
Gayle ...	1.61	0.25	14	5	7.63
Rio Hoe ...	6.49	2.39	1	10	9.11
Unity Valley ...	1.76	0.69	1	8	8.56
Moneague ...	3.81	1.40	24	5	8.34
Union Hill ...	...	...	...	...	...
Claremont ...	1.17	0.42	3	6	6.43
Albion, St. Ann ...	2.03	0.70	25	6	6.97
Averham Park ...	0.73	0.20	3	7	6.31
Means ...	3.12	..	...	...	...

Northern Division.	June, 1912. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	1.17	0.46	27	6	5.53
Ocho Rios ...	2.80	1.40	4	5	5.20
Bogue, Ocho Rios ...	1.72	0.25	28	5	...
Arthurs Seat ...	...	...	...	...	...
Drax Hall ...	1.18	0.55	14	5	5.16
Liberty Hill ...	0.95	0.62	4	3	...
St. Ann's Bay ...	2.15	0.87	4	7	4.30
Seville ...	1.55	0.89	4	6	4.90
Richmond Estate ...	0.63	0.30	4	3	5.04
Llandovery ...	1.22	0.48	13	5	4.53
Southfield, St. Ann ...	...	...	...	...	...
Ballintoy ...	...	...	...	...	...
Brown's Town ...	2.24	1.20	13	3	4.74
Hyde Park ...	...	...	...	...	...
Dry Harbour ...	0.54	0.20	13	5	4.42
Chewmagna, St. Ann ...	1.03	0.62	2	4	7.92
Home Castle ...	0.65	0.35	13	2	4.48
Richmond Pen ...	...	...	...	..	...
Mahogany Hall ...	1.51	0.57	24	8	6.02
Barnstaple ...	1.08	0.50	1	6	...
Brampton Bryan ...	0.51	0.32	7	4	3.71
Bryan Castle ...	0.45	0.20	14	4	3.63
Braco ...	0.35	0.15	14	4	3.26
Arcadia ...	...	...	...	...	...
Lancaster ...	0.19	0.12	14	3	3.54
Harmony Hall ...	0.42	0.20	19	4	3.03
Vale Royal ...	...	...	...	...	...
Colchis Pen ...	...	...	...	...	...
Swanswick ...	2.68	1.35	19	5	...
Hyde ...	...	...	...	...	...
Georgia ...	1.41	0.53	1	5	3.92
Long Pond ...	2.60	0.80	19	6	5.11
Hyde Hall ...	2.63	1.50	1	6	5.24
Steelfield ...	...	...	...	...	...
Etingdon ...	2.05	0.73	1	6	4.54
Oxford ...	...	...	...	...	...
Cambridge ...	...	..	...	...	...
Lottery ...	1.85	0.75	14	4	4.14
Falmouth ...	...	...	...	...	...
Florence Hall ...	1.60	0.67	13	3	...
Holland Pen ...	...	...	...	...	...
Orange Valley ...	...	...	...	...	...
Kent ...	1.15	0.30	2	5	3.73
Gales Valley ...	3.60	0.87	11	6	6.78
Canaan ...	...	...	...	...	...
Content ...	1.35	0.90	10	3	4.81
Bellfield ...	..	...	...	...	...
Hampden ...	...	...	...	...	...
Moor Park ...	...	...	...	...	...
Success ...	0.90	0.30	14	4	2.92
Guilsbro ...	...	...	...	...	...
Cinnamon Hill ...	0.50	0.30	9	3	3.47
Rose Hall ...	0.67	0.25	9	4	3.30
Running Gut ...	1.63	1.35	24	2	7.69
Spring ...	1.50	1.50	24	1	...
Montego Bay ...	3.65	1.15	24	9	7.19
Catherine Hall ...	3.77	1.21	24	12	7.30
King Gate ...	3.00	0.96	1	9	9.92
Round Hill ...	6.60	1.60	1	12	6.35
Sandy Bay ...	7.32	1.60	28	13	7.56
Haughton Court ..	...	...	...	...	...
Lucea —	6.92	1.70	14	18	8.76
Westfield —	...	...	...	...	...

CENTRAL SUB-DIVISION.	JUNE, 1912.				
	Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Rio Magno ...	3.64	1.13	3	11	...
Headworks, Rio Cobre ...	0.06	0.06	18	1	6.16
Linstead ...	0.84	0.30	18	4	8.59
Berkshire Hall ...	3.41	1.10	25	11	...
Point Hill ...	0.51	0.27	21	3	11.26
Brown's Hall ...	0.31	0.31	9	1	12.60
Worthy Park ...	2.24	0.80	1	7	7.19
Crofts Hill ...	0.81	0.36	9	5	...
Chapelton ...	2.45	2.05	10	5	7.56
Mears ...	...	...	...	...	...
Danks Works ...	1.98	1.12	9	4	8.05
Savoy House ...	2.00	1.14	9	7	9.18
Trout Hall ...	5.27	1.88	18	9	...
Cave Valley ..	1.84	0.70	29	...	7.80
Greenock ...	1.75	0.75	29	...	...
Means ...	1.86	...	...	...	...
WEST-CENTRAL DIVISION.					
Whitney ...	0.65	0.30	6	5	...
Mocho, Clarendon ...	...	...	...	...	...
Baillieston ...	3.39	1.25	9	8	10.06
Brokenhurst ...	5.10	3.10	9	6	13.68
Christiana ...	1.02	0.62	9	3	8.16
Chudleigh ...	0.65	0.29	9	5	...
Shooter's Hill ...	1.96	1.10	28	7	..
Spitzbergen ...	2.04	0.65	18	8	...
Kendal, Manchester ...	1.79	0.90	28	9	10.21
Marshalls Pen ...	3.96	1.35	9	6	8.39
Mandeville ...	3.62	2.00	9	7	10.07
Carlton, Mandeville ...	2.65	0.90	9	9	...
Berry Hill ...	2.90	1.86	9	7	..
Fairfield, Manchester ...	1.01	0.45	9	6	9.08
Ulster Spring ...	2.18	0.85	20	7	5.59
Albert Town ...	0.96	0.50	19	4	...
Low River ...	0.60	0.60	8	1	...
Troy ...	3.10	2.00	20	2	7.77
Pepper ...	...	...	...	...	...
Fontabelle, Trel. ...	...	...	...	...	...
Windsor Pen, Trel. ...	1.68	0.70	20	8	9.45
Wallingford ...	0.93	0.51	21	4	...
Balaclava Police Station ...	0.93	0.60	18	2	4.98
Siloah ...	2.44	0.80	19	6	...
Santa Cruz ...	2.23	2.23	23	1	6.06
Appleton Estate ...	2.92	1.46	18	7	7.20
Maggotty ...	2.55	1.35	18	8	6.35
Spring Vale ...	9.19	1.68	18	14	11.31
Ipswich, Ry. St. ...	6.27	3.09	18	8	...
Springfield, St. Eliz. ...	...	..	...	...	...
Catadupa Rly. Station ...	7.29	1.43	20	11	...
Kempshot ...	7.55	1.54	24	15	9.29
Hazelymph ...	6.27	1.45	19	13	9.74
Kew Park ...	3.67	0.94	22	16	9.56
Copse ...	...	...	...	...	...
Ramble ...	...	...	...	...	...
Petersville ...	2.19	1.07	18	5	8.54
Darliston ...	12.83	2.18	22	15	10.38
Whithorn ...	7.10	1.55	18	13	9.58
Great Valley, Han. ...	...	...	...	...	...
Brownsville ...	...	...	...	...	...
Fort William ...	...	...	...	...	...
George's Plain ...	...	...	...	...	...
Fontabelle, Westm. ...	...	...	...	...	...
Belleisle ...	2.77	1.27	2	8	10.47
Morgan's Bridge ...	6.25	1.22	20	10	10.61
Glasgow Estate ...	...	...	...	...	...
King's Vale Police St. ...	5.47	1.00	1	12	11.37
Means ...	3.68	...	...	...	...

SOUTHERN DIVISION.	JUNE, 1912				
	Total fall.	Greatest fal. in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	1.20	0.35	2	11	7.12
East Prospect ...	2.08	0.76	1	15	...
Morant Bay ...	2.14	0.31	22	13	10.19
Easington ...	2.59	0.55	22	13	10.28
Bull Bay ...	..	...	...	...	...
Bellevue ...	2.12	1.22	8	6	...
Gordon Town ...	...	...	...	...	...
Hope Gardens ...	0.09	0.05	22	3	5.55
King's House Gardens ...	0.54	0.42	19	3	5.16
Halfway Tree ...	0.00	...	...	...	4.58
Lunatic Asylum ...	0.15	0.13	22	2	5.90
Kingston S. Camp Road ...	0.12	0.12	22	1	..
" Parade Gard. ...	0.15	...	...	1	...
" P. W. Office ...	0.08	0.08	23	1	4.38
Plumb Point L. H. ...	0.17	0.07	22	5	4.65
Ballast Ground ...	...	...	...	...	...
Quarantine Station ...	0.12	0.12	22	1	...
Spanish Town ...	0.01	0.01	9	1	5.24
Hog Hole Pen ...	0.00	...	...	...	5.81
Hartlands ...	0.00	...	...	...	...
Belmont, St. Catherine ...	0.11	0.06	10	3	...
Old Harbour ...	0.10	0.10	27	1	7.68
May Pen ...	0.28	0.18	4	3	7.66
Hillside Estate ...	...	...	...	...	...
Amity Hall ...	0.51	0.12	10	6	...
Money Musk ...	...	...	...	...	...
Dunkley's, Vere ...	0.63	0.18	7	5	11.95
Dry River " ...	0.55	0.22	7	7	...
Caswell Hill " ...	0.30	0.20	7	2	...
Denbigh ...	0.00	...	...	...	6.01
Toll Gate ...	0.75	0.31	9	4	...
Woodleigh ...	0.00	...	...	...	...
New Yarmouth ...	0.43	0.18	5	4	7.16
Exeter, Vere ...	...	...	..	...	...
Rhymesbury ...	0.66	0.40	9	7	10.58
Springfield, Clarendon ...	...	...	...	...	...
Milk River ...	0.16	0.16	24	1	10.55
Clarendon Pk. Ry. St. ...	0.75	0.57	10	3	...
Victoria Town ...	0.86	0.50	9	2	8.63
Stone's Hope ...	2.87	2.28	9	6	10.18
Newport, Manchester ...	3.26	1.50	9	7	10.62
Great Valley, Man. ...	2.44	1.95	9	7	8.40
Alligator Pond ...	0.00	...	...	...	6.00
Lititz ...	0.40	0.40	9	1	...
Long Hill ...	0.13	0.11	18	3	5.96
Unity, Malvern ...	...	...	...	...	...
Bethlehem, St. Eliz. ...	0.30	0.24	18	2	5.26
Torrington ...	...	...	...	...	...
Pedro Plains ...	0.10	0.06	8	2	4.30
Black River ...	1.25	0.72	18	4	4.02
Font Hill ...	0.35	0.15	22	3	6.08
Mount Edgecombe ...	2.87	1.67	21	7	6.82
Bluefields ...	5.04	2.03	17	5	...
Sweet River ...	2.63	1.25	18	7	7.37
Windsor, Sav.-la-mar ...	4.12	1.51	2	8	6.72
Orchard, Sav.-la-mar ...	4.58	1.47	2	7	..
Sav.-la-mar ...	2.18	0.69	2	10	6.64
Retreat ...	1.72	1.01	22	5	7.95
White Hall ...	2.52	1.17	19	12	...
Negril Point L.H. ...	1.84	0.50	20	11	6.26
Negril Pol. Sta. ...	2.67	0.97	19	12	...
Means ...	1.06	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

—	June. 1912.	June. Average.
	In.	In.
North-Eastern Division ...	3.12	10.75
Northern ...	1.86	5.74
West-Central ...	3.68	9.48
Southern ...	1.06	6.93
The Island ...	2.43	8.22

The heaviest rainfall 13.83 inches was recorded at Darliston. Several places in the southern division had no rainfall.

Rainfall at Grand Cayman. May, 1912.	Total Fall.	Greatest fall. Amount.	Greatest fall. Date.	No. of days on which 0.01 or more fell.
East End ...	2.75	0.59	24	6
Bodden Town ...	2.29	1.00	19	6
George Town ...	2.97	1.00	19	12

Shocks of Earthquake in June, 1912.

Date.	Mean time. hr. min.	Intensity.	Notes: where felt, etc.
	No earthquakes this month.		

Corrigendum—W.R. No. 404. May, 1912, p. 2. Unity Valley, for 2.80, read 3.05, and for 7 rainy days read 8.

Magnetic Variation. The variation of the compass at the Kempshot Observatory in June was 2° 30′ E.

Diurnal variation of Magnetic Decl.

Kempshot—June, 1912.

6 a.m.	2° 29′
7 „	30
8 „	31
9 „	31
10 „	30½
11 „	29½
Noon	27½
1 p.m.	26
2 „	25
3 „	24
4 „	24
5 „	25
6 „	2° 26

The Weather Office,
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

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JAMAICA

WEATHER REPORT

FOR THE MONTH OF

JULY, 1912.

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The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House	8	29.999	29.976	81.3	84.4	86.3	76.2	10.1	87.5	12th	68.5	25th	19.0
Kingston	24	29.970	29.924	78.4	87.0	90.9	74.0	16.9	93.2	29th	72.7	24th	20.5
Kempshot	1,773	29.980	29.949	72.6	76.4	81.3	70.1	11.2	83.8	27th	68.2	17th*	15.6
Negril Point Light House	33	29.973	29.948	79.0	83.8	88.6	72.1	16.5	91.3	10th	69.3	1st	22.0
Castleton Gardens	496	...	...	69.4	86.5	91.8	59.1	32.7	96.0	23rd*	54.0	6th*	42.0
Hope Gardens†	668	29.997	29.891	76.2	87.2	90.9	71.1	19.8	94.0	11th*	69.0	5th*	25.0
Stony Hill Reformatory	1,400	...	...	71.8	83.1	86.4	67.9	18.5	92.0	19th	66.0	8th*	26.0
Hill Gardens	4,907	25.335	25.294	65.6	67.9	74.3	58.5	15.8	77.0	1st*	57.0	16th*	20.0

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: (direction from and miles per hour.)				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House	8	76.8	86	77.8	81	1.20	325	SE	8·3	SE	9.5	4.4	3.4	3.3	3.5	3.4	3.9
Kingston	24	68.9	72	72.7	75	0.02	244	NNE	4	SE	20.0	0.7	1.0	1.0	3.5	1.1	1.7
Kempshot	1,773	66.4	81	67.4	74	9.12	142	E	6.9	Var	4.5	1.3	0.4	3.2	1.3	5.0	1.2
Negril Point Light House‡	33	70.7	74	72.7	70	5.16	172	ENE	6.8	SE byE	10.2	0.6	0.6	4.2	4.4	4.3	0.3
Castleton Gardens	496	67.6	97	72.3	61	3.10	...	...	...	..	...	...	...	...	...	...	...
Hope Gardens	668	64.0	66	68.5	55	0.74	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory	1,400	66.0	82	67.8	60	5.27	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens	4,907	57.6	78	59.5	76	1.07	...	...		...	..		...	...	...	..	...

* and on other days.

† Hope Gardens. Bar. read at 9 a.m. and 3 p.m.

‡ Negril Point Light House. Wind 11 p.m. ENE 6.6

RAINFALL FOR JULY, 1912.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to Weather Report, No. 256A. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	JULY, 1912. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	...	...	..	...	...
Ecclesdown ...	7.27	1.15	23	12	...
Spring Valley .	4.85	1.05	29	10	...
Bath ...	4.33	1.20	17	5	9.66
Boston ...	1.53	1.05	18	2	7.34
Moore Town ...	5.40	...	...	...	20.23
Port Antonio ...	5.58	1.06	17	13	11.60
Fellowship ...	5.72	0.87	18	16	16.64
Windsor, Portland ...	...	...	..	...	...
Johnson River Bridge ...	2.62	0.39	18	15	7.71
Cedar Valley, St. Thos. ...	1.43	0.50	18	8	4.85
Moy Hall, St. Thos. ...	1.47	0.48	19	6	5.53
Lennox ...	4.87	1.25	10	8	...
Hill Gardens ...	1.07	...	...	...	..
Buff Bay ...	3.13	1.11	17	10	7.37
Vinery ...	2.16	1.00	17	6	...
Windsor Castle, Port. ...	3.90	1.95	18	6	...
Greenvale, Portland ...	2.36	1.71	17	11	..
Mt. Holstein ...	3.56	1.98	25	10	3.35
Irish Town ...	...	...	...	...	...
Hardware Gap ...	...	...	...	...	...
Stony Hill Reform. ...	5.27	2.00	25	10	5.39
Castleton Gardens ...	3.10	...	...	...	...
Lawrence Tavern ...	...	..	...	...	...
Carew Castle ..	4.29	1.01	21	9	...
Agualta Vale ...	2.50	0.46	18	7	...
Water Valley ...	3.14	0.61	18	6	3.46
Albany, Ry. Station ..	3.70	1.10	21	7	...
Platfield ...	4.51	1.01	25	10	...
Richmond, St. Mary ..	3.94	1.47	17	8	3.68
Hampstead, St. Mary ...	4.31	1.12	17	8	...
Kendal, St. Mary ...	5.01	1.64	7	8	...
Gayle ...	4.40	1.84	31	8	2.92
Rio Hoe ...	3.50	1.70	7	8	4.29
Unity Valley ...	4.60	1.35	19	11	5.92
Moneague ...	3.77	1.10	19	8	4.73
Union Hill ...	...	...	...	...	...
Claremont ...	3.56	1.20	7	8	3.43
Albion, St. Ann ...	2.34	0.40	15	8	3.38
Averham Park ...	1.84	0.84	17	5	4.24
Means ..	3.64	..	...	...	...

NORTHERN DIVISION.	JULY, 1912. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	4.64	1.84	18	10	4.19
Ocho Rios ...	3.48	1.45	31	5	2.34
Bogue, Ocho Rios ...	2.23	0.70	31	6	...
Arthurs Seat ...	...	...	...	...	...
Drax Hall ...	5.45	3.40	17	6	2.96
Liberty Hill ...	2.17	0.90	17	5	...
St. Ann's Bay ...	4.96	3.00	17	10	2.96
Seville ...	6.47	3.00	17	9	2.31
Richmond Estate ...	4.57	2.50	3	7	2.24
Llandovery ...	6.00	3.65	17	5	2.08
Southfield, St. Ann ...	...	...	...	...	...
Ballintoy ...	...	...	...	...	...
Brown's Town ...	1.54	0.76	17	5	2.68
Hyde Park ...	...	...	...	...	...
Dry Harbour ...	2.90	1.50	17	4	1.81
Chewmagna, St. Ann ...	2.59	1.40	9	9	3.07
Home Castle ...	3.47	1.10	31	11	2.16
Richmond Pen ...	...	...	...	..	...
Mahogany Hall ...	3.48	0.57	25	6	4.35
Barnstaple ...	4.54	1.38	18	11	...
Brampton Bryan ...	3.92	1.10	17	7	2.18
Bryan Castle ...	2.90	0.91	17	7	1.81
Braco ...	2.25	0.80	18	5	1.69
Arcadia ...	3.87	1.10	25	8	2.00
Lancaster ...	2.01	1.18	...	4	1.99
Harmony Hall ...	2.09	0.90	17	8	1.56
Vale Royal ...	3.37	1.45	17	9	2.87
Colchis Pen ...	2.57	1.35	4	6	3.18
Swanswick ...	4.55	0.46	17	12	..
Hyde ...	...	...	...	...	...
Georgia ...	...	...	...	...	...
Long Pond ...	4.12	1.02	15	11	...
Hyde Hall ...	...	...	...	...	...
Steelfield ...	3.15	0.70	17	11	...
Etingdon ...	...	...	..	...	...
Oxford ...	...	...	...	...	...
Cambridge ...	...	...	...	...	...
Lottery ...	4.05	1.10	31	11	2.33
Falmouth ...	..	...	...	...	...
Florence Hall ...	1.92	0.95	31	6	...
Holland Pen ...	...	...	...	...	...
Orange Valley ...	...	...	...	...	...
Kent ...	2.10	0.80	31	7	...
Gales Valley ...	4.89	1.00	18	8	5.27
Canaan ...	...	...	...	...	...
Content ...	4.09	2.15	31	5	...
Bellfield ...	4.62	1.00	31	9	...
Hampden ...	...	...	...	...	...
Moor Park ...	3.60	1.93	31	6	...
Success ...	1.75	1.10	31	4	1.46
Guilsbro ...	...	...	...	...	...
Cinnamon Hill ...	1.96	1.31	31	5	1.31
Rose Hall ...	1.90	1.45	31	5	1.12
Running Gut ...	3.54	1.95	31	7	1.25
Spring ...	2.04	1.50	31	3	...
Montego Bay ...	6.45	1.65	31	8	3.41
Catherine Hall ...	5.28	1.25	7	8	4.08
King Gate ...	0.79	0.50	18	3	5.59
Round Hill ...	4.70	1.50	18	7	3.81
Sandy Bay ...	4.55	1.20	31	9	5.44
Haughton Court .	...	...	...	...	...
Lucea ...	10.11	2.79	15	9	5.50
Green River ...	11.68	1.98	18	16	...
Westfield ...	...	...	...	...	...

Central Sub-Division.	July, 1912. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Rio Magno ...	3.63	0.82	7	8	...
Headworks, Rio Cobre ...	1.73	0.72	17	4	3.70
Linstead ...	2.14	1.20	22	4	5.93
Berkshire Hall ...	2.83	0.85	15	10	...
Point Hill ...	2.84	0.95	13	11	6.57
Brown's Hall .	3.25	1.60	13	6	4.66
Worthy Park ...	2.52	1.10	22	5	4.34
Crofts Hill ...	0.58	0.21	10	4	...
Chapelton ...	0.69	0.43	21	4	3.65
Mears ...	...	...	...	...	...
Danks Works ...	0.64	0.45	21	3	3.48
Savoy House ...	1.20	0.56	21	8	3.15
Trout Hall ...	2.61	1.58	3	4	...
Cave Valley ..	3.98	0.75	9	...	4.67
Greenock ...	3.80	0.70	9	...	...
Means ...	3.41	...	...	...	...
West-Central Division.					
Whitney ...	4.00	1.90	17	10	...
Mocho, Clarendon ...	...	...	...	...	...
Baillieston ...	2.79	1.24	7	6	4.49
Brokenhurst ...	...	...	...	...	..
Christiana ...	2.53	0.62	24	9	4.37
Chudleigh ...	3.36	0.85	7	12	...
Shooter's Hill ...	4.63	1.46	3	14	..
Spitzbergen ...	5.22	1.48	24	13	...
Kendal, Manchester ...	3.22	0.90	3	11	5.45
Marshalls Pen ...	4.91	2.15	24	10	4.94
Mandeville ...	4.82	1.50	24	11	5.91
Carlton, Mandeville ...	3.18	1.50	24	11	...
Berry Hill ...	4.00	2.20	24	9	..
Fairfield, Manchester ...	3.05	1.43	24	10	3.05
Ulster Spring ...	8.99	2.00	27	12	4.45
Albert Town ...	7.74	1.66	25	11	...
Low River ...	2.63	0.95	14	8	...
Troy ...	8.95	3.65	7	3	7.11
Pepper ...	...	...	...	...	..
Fontabelle, Trel. ...	...	...	...	...	...
Windsor Pen, Trel. ...	8.87	2.10	18	15	6.65
Wallingford ...	4.42	2.06	17	8	...
Balaclava Police Station ...	3.67	1.64	17	5	4.71
Siloah ...	10.07	2.05	17	12	...
Santa Cruz ...	4.35	1.14	16	7	5.27
Appleton Estate ...	11.24	2.24	17	16	7.24
Maggotty ...	10.67	2.00	21	17	8.15
Spring Vale ...	10.79	1.50	6	11	8.33
Ipswich, Ry. St. ...	12.89	2.26	13	18	...
Springfield, St. Eliz. ...	...	.	...	...	...
Catadupa Rly. Station ...	13.10	3.00	25	17	...
Kempshot ...	9.12	2.37	25	16	6.21
Hazelymph ...	11.42	3.63	15	14	9.18
Kew Park ...	8.33	2.58	18	21	10.33
Copse ...	...	...	...	...	...
Ramble ...	...	...	...	...	...
Petersville ...	5.89	0.92	7	16	7.17
Darliston ...	10.81	1.86	26	22	11.87
Whithorn ...	5.50	1.50	18	14	10.73
Great Valley, Han. ...	...	...	...	...	...
Brownsville ...	...	...	...	...	...
Fort William ...	...	...	...	...	...
George's Plain ...	...	...	...	...	...
Fontabelle, Westm. ...	...	...	...	...	...
Belleisle ...	9.80	2.33	18	19	9.00
Morgan's Bridge ...	6.45	2.81	18	16	11.16
Glasgow Estate ...	...	...	...	...	...
King's Vale Police St. ...	14.58	2.02	22	18	10.74
Means ...	7.72	...	...	...	...

Southern Division.	July, 1912. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	1.20	0.36	18	...	3.23
East Prospect ...	2.75	1.00	17	9	...
Morant Bay ...	1.47	0.50	18	6	5.80
Easington ...	1.50	0.56	18	10	6.22
Bull Bay ...	..	...	...	...	...
Bellevue ...	0.50	0.22	31	5	...
Gordon Town ...	...	...	...	...	...
Hope Gardens ...	...	...	...	...	...
King's House Gardens ...	0.93	0.54	17	4	2.84
Halfway Tree ...	..	...	...	...	...
Lunatic Asylum ...	0.02	0.02	16	1	1.51
Kingston S. Camp Road ...	0.10	0.09	16	2	..
" Parade Gard. ...	...	...	...	...	...
" P. W. Office ...	0.02	0.02	16	1	1.81
Plumb Point L. H. ...	0.00	...	..	...	1.94
Ballast Ground ...	0.00	...	...	...	...
Quarantine Station ...	0.00	...	...	...	...
Spanish Town ...	0.70	0.20	3	5	2.48
Hog Hole Pen ...	1.79	0.54	12	5	2.67
Hartlands ...	0.30	0.18	18	2	...
Belmont, St. Catherine ...	1.88	0.93	13	6	...
Old Harbour ...	0.14	0.10	15	2	2.57
May Pen ...	1.08	1.05	13	2	3.72
Hillside Estate ...	...	...	...	...	...
Amity Hall ...	...	...	..	...	...
Money Musk ...	...	...	...	...	...
Dunkley's, Vere ...	0.02	0.02	31	1	2.32
Dry River " ...	0.00	...	...	...	...
Caswell Hill " ...	...	...	...	...	...
Denbigh ...	0.00	...	...	..	2.99
Toll Gate ...	0.14	0.08	16	2	...
Woodleigh ...	0.00	...	...	...	...
New Yarmouth ...	0.00	...	...	...	2.42
Exeter, Vere ...	0.30	0.20	7	2	...
Rhymesbury ...	0.23	0.18	31	3	2.28
Springfield, Clarendon ...	...	...	...	...	...
Milk River ...	...	...	...	...	...
Clarendon Pk. Ry. St. ...	...	...	...	..	...
Victoria Town ...	0.00	..	...	...	2.61
Stone's Hope ...	1.09	0.41	13	6	4.30
Newport, Manchester ...	2.38	1.03	24	6	3.73
Great Valley, Man. ...	0.95	0.33	16	4	3.27
Alligator Pond ...	2.16	1.87	24	2	2.43
Lititz ...	2.90	2.40	24	4	...
Long Hill ...	2.88	1.17	24	8	3.52
Unity, Malvern ...	...	...	...	...	...
Bethlehem, St. Eliz. ...	1.96	1.01	24	7	3.04
Torrington ...	...	...	...	...	...
Pedro Plains ...	0.99	0.62	16	2	1.48
Black River ...	3.12	0.77	13	11	4.82
Font Hill ...	5.80	1.45	27	12	5.73
Mount Edgecombe ...	5.05	1.68	13	14	6.93
Bluefields ...	12.52	2.59	13	17	...
Sweet River ...	6.17	1.50	26	12	7.52
Windsor, Sav.-la-mar ...	6.67	1.55	3	15	6.91
Orchard, Sav.-la-mar ...	7.60	1.22	26	16	...
Sav.-la-mar ...	2.97	0.97	3	14	5.84
Retreat ...	9.05	1.99	27	11	7.65
White Hall ...	4.78	1.10	18	11	...
Negril Point L.H. ...	5.16	1.27	15	12	5·90
Negril Pol. Sta. ...	5.31	1.27	22	11	...
Means ...	2.44	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

—	July. 1912.	July. Average.
	In.	In.
North-Eastern Division ...	3.64	6.28
Northern ...	3.41	3.21
West-Central ...	7.72	7.85
Southern ...	2.44	3.59
The Island ...	4.30	5.23

The heaviest rainfall 14.58 inches was recorded at the King's Vale Police Station. No rain fell at many places on the southern side of the Island.

Rainfall at Grand Cayman. June, 1912.	Total Fall.	Greatest fall. Amount.	Greatest fall. Date.	No. of days on which 0.01 or more fell.
East End ...	4.82	0.98	3	9
Bodden Town ...	3.98	1.00	2	12
George Town ...	..	..	.	..

Shocks of Earthquake in July, 1912.

Date.	Mean time. hr. min.	Intensity.	Notes: where felt, etc.
	No earthquakes this month.		

Magnetic Variation. The variation of the compass at the Kempshot Observatory in July was 2° 28′ E.

The Weather Office,
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

THE FLOW OF THE WATER IN THE MILK RIVER AND THE RAINFALL.

The flow of water at the dam of the Vere Irrigation works at St. Jago in Clarendon is measured in thousands of cubic yards per hour; thus the figures 8.2 and 0.6 mean that 8,200 and 600 cubic yards respectively were flowing per hour at the stated times.

Between Jan. 1906 and Aug. 1910, the flow was recorded only on the last day of each month, and nothing could be done to compare this flow with the adjacent rainfall; but when Mr. H. Upton took charge of the works, at my request the flow was registered daily, and the mean flow for the whole river for each month from Sept. 1910 onwards has thus been obtained.

The Milk River rises at Redbury near Porus. but the river is chiefly supplied with water which has come underground from distant sources. At St. Toolies a large spring fills a lake which overflows into the Milk River; at Berrydale near Porus there is another but smaller spring; and no doubt there are others. Opinions differ as to where the water in these springs come from; of course the Whitney River, which sinks near the works, claims our first attention; and it is possible that the Whitney River comes to the surface again at Berrydale about two miles from the sink. But the spring at St. Toolies is said to have no connection with Whitney, and that the water comes either from the Manchester hills or from the Cave Valley district.

This necessitates the comparison of the flow of the Milk River with the rainfall over a large area.

The following table gives the monthly rainfall to the nearest inch at several places arranged in three groups according to distance from the head of the Milk River.

Year and Month.	Flow of the Milk River.	Whitney.	Mocho.	Shooters Hill	Kendal	Mandeville.	Brokenhurst.	Cave Valley.	Baillieston.	Christiana.	Chudleigh.	Spitzbergen.	Marshalls Pen.	Lowe River.	Troy.	Wallingford.	Balaclava.
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
1910—																	
September	8.2	16	9	12	10	8	13	11	7	11	9	11	9	11	9	13	12
October	19.0	27	21	18	19	18	26	22	16	15	12	17	13	17	16	12	9
November	9.8	5	4	6	5	5	8	8	6	7	..	6	4	6	14	7	8
December	8.2	1	3	1	1	2	1	7	6	9	5	2	1	9	11	5	4
1911—																	
January	6.6	5	..	1	2	4	2	1	1	2	2	2	4	3	3	3	2
February	5.3	0	..	1	1	1	1	3	1	0	1	0	2	2	0	3	2
March	4.2	4	4	6	6	6	5	1	6	8	11	8	7	4	3	8	6
April	3.3	6	3	5	4	6	6	2	2	5	7	5	5	3	9	11	10
May	4.2	10	13	9	7	9	12	14	12	14	12	13	10	12	12	13	8
June	3.5	3	..	4	4	4	2	4	1	2	2	2	4	1	0	1	1
July	2.7	7	4	6	6	3	3	3	3	4	2	3	2	4	1	3	3
August	2.4	4	2	6	5	5	3	6	8	8	4	5	4	4	14	8	8
September	2.2	5	5	8	9	7	2	6	8	8	11	8	7	10	21	20	10
October	2.6	9	12	12	13	13	7	11	7	8	16	13	14	14	25	15	12
November	3.3	10	8	5	6	9	17	7	2	2	2	3	..	1	0	3	2
December	2.0	1	2	2	2	3	4	4	4	4	3	3	1	7	2	1	1
1912—																	
January	1.2	2	2	2	1	1	3	2	1	1	1	2	1	3	3	2	2
February	0.8	2	1	1	1	2	1	1	1	1	1	1	1	3	2	2	2
March	0.6	5	..	3	3	9	13	..	5	8	8	5	6	7	9	7	6
April	0.2	3	1	2	2	1	3	1	2	1	1	2	3	2	4	3	2
May	0.0	2	..	2	2	1	1	3	3	4	2	2	1	4	13	6	4
June	0.0	1	..	2	2	4	5	2	3	1	1	2	4	1	3	1	1

It will be noticed that the flow in the Milk River continually diminished from October, 1910, to May, 1912, with the exception of May and of October and November, 1911; the rains in May and October, 1911, were so uniformly distributed that no discrimination can be made among the stations; but in November that year the rainfall in only the first group of stations, from Whitneyto Brokenhurst, seems to have affected the flow.

At the first glance it might appear that the rainfall at the stations in the third group, from Lowe River to Balaclava, during September and October might have caused the rise in the flow during October and November; but if this were so, then the rainfall in that group during April and May should have caused a rise in the flow during May and June; but there was no such rise in June; on the contrary the fall re-commenced.

Among the stations in the first group, Shooters Hill and Kendal hardly contributed to the flow in May and November, and may be omitted; the flow in November was apparently due to the heavy fall at Brokenhurst; and we are left with the four stations Whitney, Mocho, Mandeville, and Brokenhurst, whose rainfall apparently affects the flow of the Milk River.

Taking the average of the rainfall at these four stations it is surprising to see what a heavy rainfall is required to increase the flow when small; in April when the flow was about 3, it required 11 inches of rain to raise it to 4; in October when the flow was about 2, it required 10 inches of rain to raise it to $2\frac{1}{2}$, and another 11 inches the following month to raise it to 3; and in March 1912, when the flow was dying out, a fall of 7 inches had no effect at all.

This is no doubt due to the innumerable small subterranean cavities, which must first be filled up before the water can flow along its course; and again, unless the rainfall is sufficient to compensate for the continual leakage of these cavities, the flow must continually diminish, and more and more rain will be required to re-establish it.

It thus appears that when the river is low and decreasing, any rainfall under 10 inches has little or no effect on the flow; indeed the decreasing flow may be computed regardless of any small current rainfall; thus the decreasing flow during any month is equal to the flow during the preceding month less half the square root of that flow.

In October, 1910, the river was flooded with surface water and overflowed its banks, so we cannot compute for November and must commence with December, 1910:—

Year and Month.	Flow in the Milk River.		Average rainfall at the four Stations.
	Observed.	Computed.	
			in.
1910—			
September	8.2	..	12
October	19.0	..	23
November	9.8	..	6
December	8.2	8.2	2
1911—			
January	6.6	6.8	3
February	5.3	5.3	1
March	4.2	4.1	5
April	3.3	3.2	5
May	4.2	..	11
June	3.5	3.2	3
July	2.7	2.5	4
August	2.4	1.9	4
September	2.2	1.6	5
October	2.6	..	10
November	3.3	..	11
December	2.0	2.4	2
1912—			
January	1.2	1.3	2
February	0.8	0.6	2
March	0.6	0.4	7
April	0.2	0.2	2
May	0.0	0.0	1 or 2
June	0.0	0.0	3

The total rainfall for the four stations for the year 1911, was about 64 inches; this was about 18 inches below the average; and it was insufficient to maintain the flow.

We have now to wait until the flow rises again to its normal, and beyond, when further facts will probably present themselves.

MAXWELL HALL.

July 25th, 1912.

51.05
J7

No. 407.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

AUGUST, 1912.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32 gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House	8	29.981	29.950	81.6	83.8	85.6	75.1	10.5	87.2	26th*	68.5	30th	18.7
Kingston	24	29.953	29.903	77.9	85.3	90.7	74.0	16.7	95.0	5th	70.9	13th	24.1
Kempshot	1,773	29.969	29.926	72.2	77.9	81.3	69.8	11.5	83.3	31st	66.8	4th	17.5
Negril Point Light House	33	29.959	29.926	78.1	83.4	88.2	72.2	16.0	90.7	5th	69.6	25th	21.1
Castleton Gardens	496	...	...	74.0	81.6	91.2	59.9	31.3	96.0	4th*	56.0	15th	40.0
Hope Gardens†	668	29.954	29.886	75.5	84.3	85.9	70.8	15.1	94.0	4th	69.0	14th*	25.0
Stony Hill Reformatory	1,400	...	...	71.6	81.7	85.4	67.5	19.9	91.0	4th*	65.0	15th*	26.0
Hill Gardens	4,907	25.307	25.267	65.0	67.4	73.6	58.2	15.4	78.0	1st	56.0	16th*	22.0

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: (direction from and miles per hour.)				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House	8	75.3	80	76.2	85	2.22	414	E	8·0	E	8.3	4.3	3.0	2.7	4.0	3.0	2.9
Kingston	24	69.1	74	72.3	65	1.13	248	NNE	4.8	SE	18.3	0.6	0.7	2.1	3.1	2.0	2.2
Kempshot	1,773	69.3	84	69.1	74	7.97	147	E	5.9	E	4.1	1.6	0.6	2.0	4.4	1.4	2.0
Negril Point Light House‡	33	70.6	78	72.8	70	4.46	182	ENE	7.4	ESE	9.2	0.5	0.3	4.7	4.2	4.4	0.5
Castleton Gardens	496	64.8	74	73.4	79	7.25	...	...	...	...	...	...	...	...	...	...	
Hope Gardens	668	611	67.6	67.8	58	5.39	..	...	...	...	...	...	...	...	...	...	
Stony Hill Reformatory	1,400	67.2	86	70.0	67	8.69	...	...	...	...	...	...	...	..	...	..	
Hill Gardens	4,907	57.7	78.1	60.7	81.2	5.18	...	...	...	...	..			..	...	..	

* and on other days.

† Hope Gardens. Bar. read at 9 a.m. and 3 p.m.

‡ Negril Point Light House. Wind 11 p.m. ENE 6.6.

RAINFALL FOR AUGUST, 1912.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to Weather Report, No. 256A. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	AUGUST, 1912.				
	Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	3.63	1.30	30	10	7.17
Ecclesdown ...	10.22	2.40	31	11	...
Spring Valley .	7.68	2.05	30	12	...
Bath ...	8.02	1.75	17	11	10.01
Boston ...	5.22	3.02	30	3	...
Moore Town ...	13.16	...	...	...	15.54
Port Antonio ...	13.24	5.53	30	13	10.76
Fellowship ...	11.36	4.83	30	17	14.28
Windsor, Portland ...	...	...	..	...	...
Johnson River Bridge ...	5.50	1.02	18	18	10.02
Fruitful Vale ..	11.36	4.83	30	17	...
Cedar Valley, St. Thos. ...	6.70	4.15	30	7	9.76
Moy Hall, St. Thos. ...	7.22	4.90	31	7	7.96
Lennox ...	12.83	6.75	30	12	...
Hill Gardens ...	...	...	...	...	...
Buff Bay ...	7.71	3.45	30	9	5.70
Vinery ...	4.02	1.85	30	5	...
Windsor Castle, Port. ...	9.47	4.95	30	6	...
Greenvale, Portland ...	4.48	2.15	30	13	..
Mt. Holstein ...	5.83	2.50	15	12	6.69
Irish Town ..	6.52	2.00	30	7	...
Hardware Gap ...	6.00	...	...	...	6.73
Stony Hill Reform. ...	8.69	1.80	28	20	9.44
Castleton Gardens ...	...	.	...	...	...
Lawrence Tavern ...	6.55	1.15	30	13	8.58
Carew Castle ...	9.15	1.64	14	13	10.50
Agualta Vale ...	2.95	1.30	30	6	...
Water Valley ...	3.78	1.05	18	8	4.40
Albany, Ry. Station ..	2.50	0.80	30	7	...
Platfield ...	5.59	2.12	22	11	...
Richmond, St. Mary ...	2.44	0.70	30	11	4.97
Hampstead, St. Mary ...	2.07	0.95	18	6	...
Kendal, St. Mary ...	6.10	1.70	30	8	...
Gayle ...	2.40	0.96	22	6	4.76
Rio Hoe ...	3.66	0.78	30	9	6.27
Unity Valley ...	7.61	1.66	18	19	6.49
Moneague ...	5.89	1.75	16	13	6.03
Union Hill ...	...	...	...	...	...
Claremont ...	7.19	1.56	16	11	5.53
Albion, St. Ann ...	6.72	1.23	15	16	6.10
Averham Park ...	4.78	1.10	30	10	4.86
Means ..	6.84	..	...	...	...

NORTHERN DIVISION.	AUGUST, 1912.				
	Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	4.58	2.63	18	8	4.72
Ocho Rios ...	3.05	0.85	30	5	2.72
Bogue, Ocho Rios ...	...	...	...	...	...
Arthurs Seat ...	...	...	...	...	...
Drax Hall ...	4.38	1.10	5	10	3.59
Liberty Hill ...	3.23	0.64	23	9	...
St. Ann's Bay ...	3.81	0.70	5	16	2.65
Seville ...	3.48	0.70	5	11	3.55
Richmond Estate ...	1.90	0.44	11	6	3.36
Llandovery ...	1.69	0.40	5	7	2.86
Southfield, St. Ann ...	...	...	...	...	...
Brown's Town ...	4.73	1.33	17	8	2.98
Hyde Park ...	...	...	...	...	...
Dry Harbour ...	1.50	0.40	5	7	2.74
Chewmagna, St. Ann ...	6.40	1.65	5	9	5.24
Home Castle ...	4.60	2.20	26	8	3.61
Richmond Pen ...	...	...	...	..	...
Mahogany Hall ...	9.38	2.57	9	11	5.85
Barnstaple ...	4.75	0.86	19	11	...
Brampton Bryan ...	2.96	0.84	18	8	3.36
Bryan Castle ...	2.24	0.65	18	7	2.88
Braco ...	1.85	0.60	18	7	2.89
Arcadia ...	1.82	0.76	18	7	3.54
Lancaster ...	1.94	0.57	18	8	3.21
Harmony Hall ...	1.38	0.65	18	7	2.57
Vale Royal ...	2.68	1.32	18	7	4.54
Colchis Pen ...	4.12	1.07	11	9	5.32
Swanswick ...	3.68	0.95	18	9	.
Hyde ...	...	...	...	...	...
Georgia ...	2.24	0.80	18	...	...
Long Pond ...	2.73	0.71	12	8	3.59
Hyde Hall ...	2.30	0.31	18	8	...
Steelfield ...	2.49	0.85	12	9	3.63
Etingdon ...	1.57	0.45	18	7	...
Oxford ...	...	...	...	...	...
Cambridge ...	13.98	3.00	29	24	...
Lottery ...	2.20	0.70	17	5	3.56
Falmouth ...	. .	...	...	...	...
Florence Hall ...	1.52	0.55	17	5	...
Holland Pen ...	...	...	...	...	...
Orange Valley ...	...	...	...	...	...
Kent ...	2.35	1.22	18	3	3.04
Gales Valley ...	2.87	1.25	23	7	5.27
Canaan ...	...	...	...	...	...
Content ...	...	...	...	..	...
Bellfield ...	3.24	1.65	23	3	...
Hampden ...	...	...	...	...	...
Moor Park ...	3.44	1.30	3	6	...
Success ...	3.05	2.20	18	5	2.12
Guilsbro ...	...	...	...	...	...
Cinnamon Hill ...	3.27	2.31	18	5	2.18
Rose Hall ...	2.90	2.20	18	5	1.91
Running Gut ...	3.54	2.46	18	5	2.59
Spring ...	3.64	2.86	18	5	...
Montego Bay ...	5.35	1.78	16	9	5.63
Catherine Hall ...	4.84	1.89	16	7	6.08
King Gate ...	4.22	0.65	16	10	5.82
Round Hill ...	7.00	1.50	6	9	5.13
Sandy Bay ...	7.12	2.00	5	11	6.79
Haughton Court .	...	...	...	...	...
Lucea ...	5.34	1.47	5	11	6.86
Westfield ...	...	...	...	...	...

CENTRAL SUB-DIVISION.	AUGUST, 1912. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Rio Magno ...	7.10	2.00	21	12	...
Headworks, Rio Cobre ...	3.21	0.88	16	9	5.75
Linstead ...	6.01	1.50	30	12	8.22
Berkshire Hall ...	5.71	1.02	30	16	...
Point Hill ...	8.17	1.76	18	17	12.37
Brown's Hall .	9.04	2.12	5	13	8.16
Worthy Park ...	10.61	3.25	18	18	5.49
Crofts Hill ...	7.26	2.50	17	15	...
Chapelton ...	4.12	0.77	7	13	6.81
Danks Works ...	4.29	1.27	7	11	5.84
Savoy House ...	4.33	1.28	7	12	6.04
Trout Hall ...	6.70	1.50	14	16	...
Cave Valley ..	6.92	1.10	28	18	7.25
Greenock ...	6.80	1.00	28	18	...
Means ...	4.22	...	...	...	...
WEST-CENTRAL DIVISION.					
Whitney ...	...	...	...	...	...
Mocho, Clarendon ...	...	...	...	...	...
Baillieston ...	8.32	1.10	25	10	6.45
Brokenhurst ...	6.73	2.88	30	9	7.12
Christiana ...	4.85	0.73	11	16	6.44
Chudleigh ...	6.27	1.66	18	15	...
Shooter's Hill ...	6.65	2.15	18	19	..
Spitzbergen ...	7.57	1.46	17	21	...
Kendal, Manchester ...	6.35	2.40	18	18	6.80
Marshalls Pen ...	5.47	1.35	7	15	8.38
Mandeville ...	7.13	1.50	29	18	8.03
Carlton, Mandeville ...	5.16	1.28	29	17	...
Berry Hill ...	6.70	1.50	29	12	..
Fairfield, Manchester ...	2.85	0.65	13	16	5.37
Ulster Spring ...	11.96	2.50	14	13	6.91
Albert Town ...	11.28	1.25	10	17	...
Low River ...	...	...	...	...	...
Troy ...	21.99	2.95	10	17	10.07
Fontabelle, Trel. ...	...	...	...	...	...
Windsor Pen, Trel. ...	7.42	1.36	28	13	8.42
Wallingford ...	10.34	2.90	16	18	...
Balaclava Police Station ...	7.48	1.94	16	13	7.02
Siloah ...	11.19	2.80	8	13	...
Santa Cruz ...	9.14	2.37	14	11	8.62
Appleton Estate ...	11.75	2.70	14	11	10.88
Maggotty ...	10.85	2.35	17	15	10.65
Spring Vale ...	9.92	2.36	5	11	11.61
Ipswich, Ry. St. ...	...	...	...	...	...
Springfield, St. Eliz. ...	...	.	...	...	...
Catadupa Rly. Station ...	...	...	...	...	...
Kempshot ...	7.97	1.37	3	19	8.61
Hazelymph ...	11.42	2.19	23	19	10.91
Kew Park ...	15.44	2.46	9	26	11.65
Montpelier ...	11.00	...	...	18	...
Copse ...	...	...	...	...	...
Ramble ...	15.6	1.68	5	20	...
Petersville ...	10.99	3.05	16	18	10.56
Darliston ...	15.31	1.74	17	25	14.62
Whithorn ...	15.20	1.50	24	26	11.72
Great Valley, Han. ...	8.73	0.85	23	11	11.79
Brownsville ...	...	...	...	...	...
Fort William ...	...	...	...	...	...
George's Plain ...	...	...	...	...	...
Fontabelle, Westm. ...	...	...	...	...	...
Belleisle ...	19.60	3.00	18	16	10.45
Morgan's Bridge ...	21.68	1.50	24	26	11.70
Glasgow Estate ...	...	...	...	...	...
King's Vale Police St. ...	16.01	1.80	17	14	10.76
Green River ...	14.70	2.60	5	24	...
Means ...	10.58	...	...	...	...

SOUTHERN DIVISION.	AUGUST, 1912. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	2.22	0.92	30	13	5.31
East Prospect ...	4.49	1.42	29	12	...
Morant Bay ...	3.90	0.74	6	14	5.68
Easington ...	8.27	5.65	30	12	6.17
Bull Bay ...	0.45	0.25	19	2	2.82
Bellevue ...	5.79	4.23	30	6	...
Gordon Town ...	5.07	2.10	30	8	4.47
Hope Gardens ...	...	...	...	...	...
King's House Gardens ...	3.66	1.36	30	16	5.67
Halfway Tree ...	2.87	1.22	30	10	3.54
Lunatic Asylum ...	1.45	0.70	30	8	2.59
Kingston S. Camp Road ...	2.02	0.98	30	9	...
" Parade Gard. ...	1.40	1.10	...	...	...
" P. W. Office ..	1.13	0.52	30	8	3.88
Plumb Point L. H. ...	1.33	0.44	18	8	3.50
Ballast Ground ...	6.96	2.75	30	8	...
Quarantine Station ...	2.38	0.70	30	3	...
Spanish Town ...	2.47	0.76	18	4	4.04
Hog Hole Pen ...	2.21	0.78	19	6	4.53
Hartlands ...	1.22	0.93	18	3	...
Belmont, St. Catherine ...	4.39	1.15	5	11	...
Old Harbour ...	1.50	0.90	18	3	4.66
May Pen ...	2.91	0.78	30	9	4.79
Hillside Estate ...	...	...	...	...	...
Amity Hall ...	...	...	..	...	...
Money Musk ...	...	...	...	...	...
Dunkley's, Vere ...	0.97	0.60	18	5	4.25
Dry River " ...	1.60	0.82	16	8	...
Caswell Hill " ...	1.57	0.90	18	4	...
Denbigh ...	1.62	0.42	18	4	4.92
Toll Gate ...	2.48	1.25	30	6	...
Woodleigh ...	1.95	0.60	18	4	...
New Yarmouth ...	1.67	0.67	18	4	3.86
Exeter, Vere ...	...	...	...	...	...
Rhymesbury ...	1.42	0.48	17	5	4.52
Springfield, Clarendon ...	...	...	...	...	...
Milk River ...	1.26	1.00	19	3	5.26
Clarendon Pk. Ry. St. ...	3.19	2.35	30	4	...
Victoria Town ...	1.54	0.22	5	4	4.05
Stone's Hope ...	3.56	1.47	30	7	5.99
Newport, Manchester ...	8.06	2.84	30	10	5.39
Great Valley, Man. ...	3.37	1.10	18	5	4.49
Alligator Pond ...	1.69	0.80	13	4	3.08
Lititz ...	1.79	0.66	30	7	...
Long Hill ...	5.78	1.45	15	9	6.36
Unity, Malvern ...	...	...	...	...	...
Bethlehem, St. Eliz. ...	5.69	1.15	12	14	4.99
Torrington ...	...	...	...	...	...
Pedro Plains ...	0.47	0.21	14	4	2.53
Black River ...	5.57	1.38	14	14	5.95
Font Hill ...	6.50	2.90	17	12	6.06
Mount Edgecombe ...	6.00	1.23	16	20	8.19
Bluefields ...	10.99	1.55	17	19	...
Sweet River ...	11.59	1.90	23	17	8.75
Windsor, Sav.-la-mar ...	9.17	1.37	23	21	7.38
Orchard, Sav.-la-mar ...	10.45	1.45	26	20	...
Sav.-la-mar ...	6.95	0.93	23	20	7.49
Retreat ...	8.31	1.96	23	14	8.70
White Hall ...	8.30	1.81	21	17	...
Negril Point L.H. ...	4.46	0.75	21	16	6.76
Negril Pol. Sta. ...	8.68	1.96	21	19	...
Means ...	3.86	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

—	August. 1912.	August. Average.
	In.	In.
North-Eastern Division ...	6.84	7.71
Northern ...	4.22	4.83
West-Central ...	10.58	9.88
Southern ...	3.68	5.14
The Island ...	6.38	6.89

The heaviest rainfall 21.99 inches was recorded at Troy in the West Central Division and the smallest, 0.47 inch at Pedro Plains.

Rainfall at Grand Cayman. July, 1912.	Total Fall.	Greatest fall. Amount.	Greatest fall. Date.	No. of days on which 0.01 or more fell.
East End ...	...	...	...	...
Bodden Town ...	1.72	0.43	25	8
George Town ...	..	..	..	..

Shocks of Earthquake in August, 1912.

Date.	Mean time. hr. min.	Intensity.	Notes: where felt, etc.
	No earthquakes this month.		

SQUALL, August 5th.

A squall passed over the Island on this day which blew down a large number of banana trees It began about noon at Glengoffe (5 miles WSW of Castleton), and it moved westward as a "line' squall, having its advancing line north and south. The line passed Dry River in Vere at 12.45 p.m.; Porus at 1 p.m.; Santa Cruz about 2 p.m.; Kempshot at 2.45 p.m.; and Savanna-la-Mar at 3 p.m.; so that the distance of 84 miles was travelled in 3 hours and so that the average rate of advance was 28 miles per hour. But no doubt its rate of advance was irregular, so that some places were not effected by its passage and others felt it severely.

At Glengoffe it came on with rain and a roaring gust of wind; at Dry Harbour the air was filled with dust and banana trees were blown down; near Chapelton it lasted only 15 minutes, but 12,000 banana trees were blown down on one property; at Santa Cruz the squall commenced at 1.25 p.m. and lasted an hour and a half, and blew down large trees which blocked the roads; at Kempshot the pressure-plate anemometer registered 6 lbs. to the square foot, which corresponds to a velocity of 41 miles an hour: and at Savanna-la-Mar trees were blown down.

At Scott's Hall near Castleton a "terrific" squall passed at 9 a.m., but nothing more was heard of this squall.

At Mandeville a squall passed at 11.15 am.; but the line squall which must have passed about 1.15 p.m. was not felt.

At Kingston there was a squall of 42 miles an hour at 2.30 p.m., when a small thunderstorm passed south of the town.

So that the weather that day was conducive to squalls; and these have been here recorded unconnected with the line squall.

As usual with these squalls, the barometer rose rapidly after the passage of the line squall, and general rains fell that afternoon over the Island, but there were no indications by means of which its approach could have been foretold.

Magnetic Variation. The variation of the compass at the Kempshot Observatory in August was 2° 32′ E.

Corrigenda. The rainfall at Running Gut for the months March, 1911 to July 1912, inclusive, is only two-thirds of the rainfall registered in the previous Weather Reports in consequence of the employment of an incorrect measuring glass.

The Weather Office,
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

Temperatures at the different Stations in Jamaica during the year, 1911.

JANUARY.

Stations.	Elevation above sea level.	Mean daily temp.	Max. temp.	Min temp.	Range.
	ft.	°	°	°	°
Morant Point ...	8	76.8	80.5	73.5	7.0
Kingston ...	24	75.3	86.6	66.4	20.2
Negril Point ...	33	75.5	84.4	66.7	17.7
Castleton Gardens ...	496	71.8	82	60	22
Hope Gardens ...	668	73.5	83	64	19
Stony Hill ...	1,400	70.0	77.4	63.4	14.0
Hill Gardens ...	4,900	59.2	65	53	12

FEBRUARY.

Stations.	Elevation above sea level.	Mean daily temp.	Max. temp.	Min. temp.	Range.
	ft.	°	°	°	°
Morant Point ...	8	76.2	79.9	73.2	6.7
Kingston ...	24	75.2	87.0	65.9	21.1
Negril Point ...	33	75.4	84.5	66.1	18.4
Castleton Gardens ...	496	70.5	83	57	26
Hope Gardens ...	668	72.5	83	62	21
Stony Hill ...	1,400	69.9	78.8	61.3	17.5
Hill Gardens ...	4,900	61.2	65	62	3

MARCH.

Stations.	Elevation above sea level.	Mean daily temp.	Max. temp.	Min. tem.	Range.
	ft.	°	°	°	°
Morant Point ...	8	74.9	80.5	69.3	11.2
Kingston ...	24	75.1	85.8	66.3	19.5
Negril Point ...	33	76.2	85.3	66.2	19.1
Castleton Gardens ...	496	71.0	86	66	30
Hope Gardens ...	668	73.0	84	64	20
Stony Hill ...	1,400	70.0	79.0	61.5	17.9
Hill Gardens ...	4,900	59.5	61	59	2

APRIL.

Stations.	Elevation above sea level.	Mean daily temp.	Max. temp.	Min. temp.	Range.
	ft.	°	°	°	°
Morant Point ...	8	77.5	82.6	72.5	10.1
Kingston ...	24	78.6	88.1	69.4	18.7
Negril Point ...	33	78.7	86.5	69.7	16.8
Castleton Gardens ...	496	73.5	88	58	30
Hope Gardens ...	668	77.0	87	66	21
Stony Hill ...	1,400	73.0	82.1	64.3	17.8
Hill Gardens ...	4,900	61.2	67	55	12

MAY.

Stations.	Elevation above sea level.	Mean daily temp.	Max. temp.	Min. temp.	Range.
	ft.	°	°	°	°
Morant Point ..	8	78.8	83.9	73.0	10.9
Kingston ...	24	79.0	87.3	71.7	15.6
Negril Point ...	33	78.9	65.2	70.8	14.4
Castleton Gardens ...	496	73.0	86	61	25
Hope Gardens ...	668	76.0	84	67	17
Stony Hill ...	1,400	72.8	80.7	66.1	14.6
Hill Gardens ...	4,900	62.5	67	56	11

JUNE.

Stations.	Elevation above sea level.	Mean daily temp.	Max. temp.	Min. temp.	Range.
	ft.	°	°	°	°
Morant Point ...	8	81.3	84.8	77.7	7.1
Kingston ...	24	82.7	90.6	74.8	15.8
Negril Point ...	33	81.1	88.3	73.1	15.2
Castleton Gardens ...	496	76.5	90	62	28
Hope Gardens ...	668	89.8	90	71	19
Stony Hill ...	1,400	77.0	86.1	67.9	18.2
Hill Gardens ...	4,900	64.2	71	58	13

JULY.

Stations.	Elevation above sea level.	Mean daily temp.	Max. temp.	Min. temp.	Range.
	ft.	°	°	°	°
Morant Point ...	8	81.7	85.2	78.2	7.0
Kingston ...	24	82.2	91.6	73.7	17.9
Negril Point ...	33	81.2	89.3	72.7	16.6
Castleton Gardens ...	496	76.3	89	62	27
Hope Gardens ...	668	82.0	91	73	18
Stony Hill ...	1,400	76.6	86.5	68.0	18.5
Hill Gardens ...	4,900	65.5	73	59	14

AUGUST.

Stations.	Elevation above sea level.	Mean daily temp.	Max. temp.	Min. temp.	Range.
	ft.	°	°	°	°
Morant Point ...	8	81.9	86.0	77.8	8.2
Kingston ...	24	81.9	91.7	73.9	17.8
Negril Point ...	33	80.9	89.5	72.3	17.2
Casleton Gardens ...	496	75.8	90	61	29
Hope Gardens ...	668	82.5	91	73	18
Stony Hill ...	1,406	73.5	84.7	67.6	17.1
Hill Gardens ...	4,900	65.8	75	58	17

SEPTEMBER.

Stations.	Elevation above sea level.	Mean daily temp.	Max. temp.	Min. temp.	Range.
	ft.	°	°	°	°
Morant Point ...	8	82.3	86.9	77.3	9.6
Kingston ...	24	82.1	92.2	74.3	17.9
Negril Point ...	33	80.6	88.9	72.8	16.1
Castleton Gardens ...	496	77.0	91	62	29
Hope Gardens ...	668	80.5	89	71	18
Stony Hill ...	1,400	74.9	79.1	67.8	11.3
Hlil Gardens ...	4,900	66.2	74	60	14

OCTOBER.

Stations.	Elevation above sea level.	Mean daily temp.	Max. temp.	Min. temp.	Range.
	ft.	°	°	°	°
Morant Point ...	8	81.0	86.4	75.5	10.9
Kingston ...	24	80.9	91.7	73.5	18.2
Negril Point ...	23	80.6	87.9	72.4	15.5
Castleton Gardens ...	496	77.5	91	61	30
Hope Gardens ...	668	77.3	87	70	17
Stony Hill ...	1,400	74.4	83.8	67.3	16.5
Hill Gardens ...	4,900	64.0	69	58	11

NOVEMBER.

Stations.	Elevation above sea level.	Mean daily temp.	Max. temp.	Min. temp	Range.
	ft.	°	°	°	°
Morant Point ...	8	80.8	84.7	76.2	8.5
Kingston ...	24	80.0	89.4	72.9	16.5
Negril Point ...	33	79.7	87.4	72.3	15.1
Castleton Gardens ...	496	74.8	88	61	27
Hope Gardens ...	668	77.5	85	70	15
Stony Hill ...	1,400	74.3	83.3	66.9	16.4
Hill Gardens ...	4,900	63.2	69	58	11

DECEMBER, 1911.

Stations.	Elevation above sea level.	Mean daily temp.	Max. temp.	Min. temp.	Range.
	ft.	°	°	°	°
Morant Point ...	8	78.3	82.2	74.3	7.9
Kingston ...	24	77.4	87.6	70.0	17.6
Negril Point ...	33	77.1	84.9	69.8	15.1
Castleton Gardens ...	496	73.8	84	64	20
Hope Gardens ...	668	74.0	83	66	17
Stony Hill ...	1,400	71.8	79.4	64.4	15.0
Hill Gardens ...	4,900	60.5	66	54	12

SUMMARY FOR THE YEAR 1911.

Stations.	Elevation above sea level.	Mean daily temp.	Max. temp.	Min. temp.	Range.
	ft.	°	°	°	
Morant Point ...	8	79.3	83.6	74.9	8.7
Kingston ...	24	79.2	89.1	71.1	18.0
Negril Point ..	33	78.8	86.8	70.4	16.4
Castleton Gardens ...	496	74.3	87.3	60.4	26.9
Hope Gardens ...	668	76.2	86.4	68.1	18.3
Stony Hill ...	1,400	73.4	81.7	65.5	16.2
Hill Gardens ...	4,900	62.8	68.5	57.5	11.0

M. H.

No. 408.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

SEPTEMBER, 1912.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32 gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standard only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar. Pressure		Temperature.					Extreme Temperature				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.942	29.912	82.9	84.5	86.7	73.6	13.1	88.6	8th	63.0	13th	25.6
Kingston ..	24	29.910	29.858	77.1	84.2	90.4	73.9	16.5	92.7	7th	71.8	1st	20.9
Kempshot ..	1,773	29.929	29.884	72.8	75.3	82.0	70.8	11.2	84.5	6th	68.5	17th	16.0
Negril Point Light House ..	33	29.915	29.876	77.9	83.5	88.2	72.5	15.7	91.3	1st	68.6	17th	22.7
Castleton Gardens ..	496	..	..	69.6	81.1	90.4	59	31.4	96	19th	56	4th*	40
Hope Gardens† ..	668	29.920	29.840	74.2	82	87	70	17	90	6th	68	29th	22
Stony Hill Reformatory ..	1,400	..	..	71.6	78.8	83.8	67.4	16.4	89	10th	65	17th*	24
Hill Gardens ..	4,900	25.282	25.248	66	66.1	71.8	58.3	13.5	77	1st	57	4th	20

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: (direction from and miles per hour.)				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	72.3	73	75.9	76	2.14	349	E	9	E	10	5.2	2.4	2.3	4.9	2.4	1.8
Kingston ..	24	70.1	79	73.2	70	1.58	177	NNE	3.6	SE	13.0	0.3	0.3	3.2	4.8	1.1	2.0
Kempshot ..	1,773	66.9	82	70.0	84	9.59	97	E	4.5	E	2.7	0.7	0.3	4.2	5.2	3.0	0.6
Negril Point Light House‡ ..	33	72.0	82	72.9	71	7.14	167	ENE	6.4	NNE	10.0	1.1	0.7	4.1	4.4	5.0	0.0
Castleton Gardens ..	496	67.8	93	74.5	82	16.05	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	66.0	76	72.8	74	6.46	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Reformatory ..	1,400	68.7	90	71.2	77	7.28	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	61.8	87	63.2	90	1.74	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m. E.N.E. 5.3

RAINFALL FOR SEPTEMBER, 1912.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to Weather Report, No. 256A. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

North-Eastern Division.	September, 1912.				
	Total Fall.	Greatest fall in 24 hours. Amount	Greatest fall in 24 hours. Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	8.81	2.59	16	11	10.88
Ecclesdown ...	11.79	4.57	16	10	...
Spring Valley .	7.64	2.07	16	12	...
Bath ...	6.61	2.60	6	18	12.03
Boston ...	2.20	1.50	16	3	11.04
Moore Town ...	10.80	...	...	...	14.21
Port Antonio ...	6.12	1.86	16	6	10.43
Fellowship ...	6.37	1.28	14	15	12.93
Windsor, Portland ...	...	...	..	...	...
Johnson River Bridge ...	6.51	3.71	16	11	11.48
Fruitful Vale ..	4.47	1.30	15	14	...
Cedar Valley, St. Thos. ...	2.90	0.88	16	8	13.40
Moy Hall, St. Thos. ...	2.60	0.70	17	8	10.92
Lennox ...	4.63	1.05	14	14	...
Hill Gardens ...	1.74	0.67	15	9	9.84
Buff Bay ...	1.62	0.29	14	9	4.94
Vinery ...	1.90	0.45	17	7	...
Windsor Castle, Port. ...	2.25	0.73	2	5	...
Greenvale, Portland ...	4.25	1.01	30	14	..
Mt. Holstein ...	8.22	3.19	15	14	9.02
Irish Town ..	...	...	...	...	...
Hardware Gap ...	...	...	...	...	...
Stony Hill Reform. ...	7.28	1.34	29	19	9.82
Castleton Gardens ...	16.05	2.20	17	20	11.21
Lawrence Tavern ...	...	.	..	...	...
Carew Castle ..	11.55	2.10	30	17	12.93
Agualta Vale ...	1.01	0.35	17	6	...
Water Valley ...	0.52	0.30	17	3	5.32
Albany, Ry. Station ..	0.50	0.30	30	3	...
Platfield ...	7.24	1.55	23	14	...
Richmond, St. Mary ..	4.97	1.88	17	7	5.59
Hampstead, St. Mary ...	1.02	0.42	29	3	...
Kendal, St. Mary ...	8.87	1.85	16	12	...
Gayle ...	2.65	0.80	16	8	6.10
Rio Hoe ...	5.57	1.64	23	8	6.18
Unity Valley ...	5.74	1.36	16	13	8.20
Moneague ...	5.20	1.56	17	12	7.14
Union Hill ...	...	...	...	...	...
Claremont ...	5.42	1.28	18	11	5.31
Albion, St. Ann ...	6.50	2.75	15	12	6.98
Averham Park ...	3.89	1.08	18	9	4.83
Means ..	5.83	..	...	...	...

Northern Division.	September, 1912.				
	Total fall.	Greatest fall in 24 hours. Amount.	Greatest fall in 24 hours. Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	1.51	0.54	18	7	3.88
Ocho Rios ...	1.57	1.22	17	3	3.93
Bogue, Ocho Rios ...	...	...	...	...	...
Arthurs Seat ...	...	...	...	...	...
Drax Hall ...	1.23	0.40	17	5	3.98
Liberty Hill ...	3.83	1.36	19	7	...
St. Ann's Bay ...	1.52	0.85	19	9	3.31
Seville ...	1.55	0.93	19	6	3.60
Richmond Estate ...	1.03	0.70	19	6	3.85
Llandovery ...	0.97	0.40	18	4	3.72
Southfield, St. Ann ...	...	...	...	...	...
Brown's Town ...	5.35	2.00	29	6	5.30
Hyde Park ...	...	...	...	...	...
Dry Harbour ...	1.00	0.50	29	5	3.07
Chewmagna, St. Ann ...	9.12	2.00	16	15	7.41
Home Castle ...	4.20	3.10	29	4	4.56
Richmond Pen ...	...	...	...	..	...
Mahogany Hall ...	...	...	...	...	...
Barnstaple ...	4.25	1.20	16	8	..
Brampton Bryan ...	2.12	0.96	16	5	3.91
Bryan Castle ...	2.15	0.83	16	5	3.44
Braco ...	1.30	0.60	16	5	3.31
Arcadia ...	2.22	1.22	16	6	4.02
Lancaster ...	1.46	0.61	16	5	3.89
Harmony Hall ...	1.64	0.77	16	6	3.64
Vale Royal ...	4.55	3.80	16	3	4.64
Colchis Pen ...	5.16	1.30	16	14	5.23
Swanswick ...	6.29	2.28	16	6	...
Hyde ...	5.75	1.80	21	6	6.01
Georgia ...	3.73	3.10	16	6	3.92
Long Pond ...	3.60	1.83	16	6	3.71
Hyde Hall ...	1.95	0.70	16	7	5.20
Steelfield ...	2.37	1.67	16	4	4.25
Etingdon ...	2.76	1.50	16	5	3.13
Oxford ...	...	...	...	...	...
Cambridge ...	...	...	...	...	...
Lottery ...	3.20	1.30	16	7	4.38
Falmouth ...	...	...	...	...	...
Florence Hall ...	2.00	1.00	16	4	...
Holland Pen ...	...	...	...	...	...
Kent ...	1.51	0.50	16	4	4.30
Gales Valley ...	6.15	1.75	14	7	7.00
Canaan ...	...	...	...	...	...
Content ...	1.82	0.95	16	5	4.88
Bellfield ...	3.13	1.45	14	4	...
Hampden ...	...	...	...	...	...
Moor Park ...	5.22	1.86	12	8	...
Success ...	1.20	0.25	29	6	3.72
Guilsbro ...	...	...	...	...	...
Cinnamon Hill ...	2.07	0.50	29	7	4.13
Rose Hall ...	1.61	0.70	29	7	3.62
Running Gut ...	2.58	1.70	16	7	3.99
Spring ...	2.90	1.23	16	7	...
Montego Bay ...	5.11	1.30	27	13	6.91
Catherine Hall ...	6.20	1.77	27	11	8.23
King Gate ...	6.81	1.20	17	10	7.04
Round Hill ...	5.53	1.00	5	12	5.34
Sandy Bay ...	7.43	1.50	16	13	7.76
Haughton Court .	...	...	...	...	...
Lucea ...	8.51	1.94	20	18	7.68
Westfield ...	...	...	...	...	...

CENTRAL SUB-DIVISION.	SEPTEMBER, 1912.				
	Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Rio Magno ...	5.04	2.05	16	8	...
Headworks, Rio Cobre ...	3.54	1.12	16	7	6.54
Linstead ...	3.13	1.60	28	7	8.01
Berkshire Hall ...	4.38	0.95	10	12	...
Point Hill ...	9.05	4.32	16	12	11.54
Brown's Hall .	8.75	5.27	16	5	10.95
Worthy Park ...	3.63	1.55	16	7	7.56
Crofts Hill ..	2.91	1.13	15	6	...
Chapelton ...	3.97	1.21	3	9	7.91
Mears ...	...	...	...	...	...
Danks Works ...	4.71	1.35	3	11	9.37
Savoy House ...	5.96	1.75	7	11	9.35
Trout Hall ...	5.21	2.30	30	9	...
Cave Valley ..	5.90	1.80	15	...	7.61
Greenock ...	6.15	1.95	15	...	...
Means ...	3.71	...	...	...	...
WEST-CENTRAL DIVISION.					
Whitney ...	5.50	1.60	16	7	...
Mocho, Clarendon ...	4.00	...	...	...	...
Baillieston ...	2.46	0.90	16	8	9.70
Brokenhurst ...	9.96	3.75	16	9	9.33
Christiana ...	3.55	0.61	15	11	9.97
Chudleigh ...	7.84	3.68	26	12	...
Shooter's Hill ...	2.65	1.70	16	9	..
Spitzbergen ...	2.19	0.71	16	12	...
Kendal, Manchester ...	3.12	1.58	16	11	9.53
Marshalls Pen ...	3.96	1.35	17	10	8.79
Mandeville ...	4.36	1.40	26	9	10.04
Carlton, Mandeville ...	4.28	1.46	26	10	...
Berry Hill ...	5.10	1.35	15	12	..
Fairfield, Manchester ...	5.95	1.67	26	11	7.80
Ulster Spring ...	13.15	3.70	13	14	8.44
Albert Town ...	9.44	1.46	16	15	...
Low River ...	...	...	...	...	...
Troy ...	21.21	4.30	3	16	13.77
Windsor Pen, Trel. ...	11.78	2.28	3	16	9.06
Wallingford ...	12.82	2.50	27	18	...
Balaclava Police Station ...	13.18	2.00	27	14	10.31
Siloah ...	13.08	2.00	29	19	...
Santa Cruz ...	7.25	2.50	26	10	10.38
Appleton Estate ...	13.21	2.52	13	16	11.50
Maggotty ...	10.85	2.00	1	18	11.84
Butler's ...	9.90	2.00	1	21	...
Spring Vale ...	7.61	1.47	22	10	10.61
Ipswich, Ry. St. ...	...	...	...	...	...
Springfield, St. Eliz. ...	...	.	...	...	...
Catadupa Rly. Station ...	12.98	1.48	26	20	...
Kempshot ...	9.59	2.22	16	17	9.64
Hazelymph ...	15.66	3.10	29	23	10.39
Kew Park ...	15.03	2.00	13	27	12.06
Montpelier ...	10.42	1.70	29	20	...
Ramble ...	18.10	1.40	28	21	...
Petersville ...	9.53	1.88	23	16	9.83
Darliston ...	23.36	2.74	14	26	13.79
Whithorn ...	16.11	1.70	4	25	12.06
Great Valley, Han. ...	18.35	3.30	16	17	12.27
Brownsville ...	...	...	...	...	...
Fort William ...	...	...	...	...	...
George's Plain ...	...	...	...	...	...
Fontabelle, Westm. ...	...	...	...	...	...
Belleisle ...	8.63	1.24	24	13	10.70
Morgan's Bridge ...	10.54	1.71	14	21	12.18
Glasgow Estate ...	...	...	...	...	...
King's Vale Police St. ...	14.84	2.11	23	23	11.44
Green River ...	9.55	1.95	27	21	...
Means ...	10.93	...	...	...	...

SOUTHERN DIVISION.	SEPTEMBER, 1912.				
	Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	2.14	0.73	15	7	7.31
East Prospect ...	5.59	1.26	16	15	...
Morant Bay ...	7.63	4.26	16	12	8.41
Easington ...	1.86	0.42	16	8	8.73
Bull Bay ...	...	...	...	...	...
Bellevue	1.36	0.53	15	10	...
Gordon Town ...	...	...	...	...	...
Hope Gardens ...	6.46	2.43	29	14	7.04
King's House Gardens ...	2.48	0.42	25	15	5.03
Halfway Tree ...	...	...	...	...	...
Lunatic Asylum ...	2.58	1.59	27	8	4.72
Kingston S. Camp Road ...	3.54	2.14	27	9	..
" Parade Gard. ...	1.74	1.30	27	3	...
" P. W. Office ..	1.58	1.20	27	6	4.18
Plumb Point L. H. ...	0.30	0.15	27	3	3.81
Ballast Ground ...	...	...	...	...	...
Quarantine Station ...	0.35	0.21	16	3	...
Spanish Town ...	2.79	0.82	24	7	5.30
Hog Hole Pen ...	2.28	0.80	16	5	6.33
Hartlands ...	2.58	1.32	25	4	...
Belmont ...	3.57	1.83	1	10	...
Old Harbour ...	7.00	2.10	15	6	6.45
May Pen ...	3.79	1.20	16	9	7.89
Hillside Estate ...	...	...	...	...	...
Amity Hall ...	2.84	1.87	26	3	...
Money Musk ...	...	...	...	...	...
Dunkley's, Vere ...	1.45	0.52	25	5	6.52
Dry River " ...	2.09	1.20	25	5	...
Caswell Hill " ...	...	...	..	...	...
Denbigh ...	1.60	0.60	28	3	5.99
Toll Gate ...	4.64	2.37	16	9	...
Woodleigh ...	1.50	0.50	28	3	...
New Yarmouth ...	1.89	0.99	25	5	5.73
Exeter, Vere ...	1.36	0.55	25	5	...
Rhymesbury ...	3.56	1.72	16	6	5.96
Milk River ...	0.50	0.30	25	3	6.33
Clarendon Pk. Ry. St. ...	...	...	...	...	...
Victoria Town ...	3.16	1.50	24	5	7.18
Stone's Hope ...	1.74	0.53	16	6	8.30
Newport, Manchester ...	3.89	1.14	15	8	7.49
Great Valley, Man. ...	1.87	0.56	25	9	6.63
Alligator Pond ...	1.19	0.58	25	4	4.98
Lititz ...	2.47	0.76	15	8	...
Long Hill ...	18.25	4.00	24	16	4.98
Unity, Malvern ...	...	...	...	...	...
Bethlehem, St. Eliz. ...	6.22	1.68	25	13	6.78
Torrington ...	...	...	...	...	...
Pedro Plains ...	2.59	1.15	2	5	4.90
Black River ...	4.00	1.08	16	12	5.75
Font Hill ...	4.20	1.10	30	7	7.11
Mount Edgecombe ...	8.98	1.42	1	7	8.39
Bluefields ...	12.38	2.10	23	20	...
Sweet River ...	10.28	1.30	10	16	7.83
Windsor, Sav.-la-mar ...	6.95	1.20	10	19	7.26
Orchard, Sav.-la-mar ...	8.39	1.48	23	19	...
Sav.-la-mar ...	6.29	1.27	15	18	6.96
Retreat ...	9.95	3.06	14	4	8.28
White Hall ...	5.49	1.78	13	12	...
Negril Point L.H. ...	7.14	2.50	14	15	7.51
Negril Pol. Sta. ...	5.49	1.22	14	13	...
Means ...	4.44	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

—	September.	
	1912.	Average.
	In.	In.
North-Eastern Division ...	5.83	8.68
Northern ...	3.71	5.70
West-Central ...	10.93	10.78
Southern ...	4.44	6.49
The Island ...	6.23	7.91

The heaviest rainfall, 23.36 inches, was recorded at Darliston, and the smallest, 0.30, inch. at the Plumb Point Light House.

Rainfall at Grand Cayman. August, 1912.	Total Fall.	Greatest fall.		No. of days on which 0.01 or more fell.
		Amount.	Date.	
East End ...	4.48	3.20	19	10
Bodden Town ...	3.47	1.35	20	9
George Town ...	..	..	..	..

Shocks of Earthquake in September, 1912.

Date.	Mean time.		Intensity.	Notes: where felt, etc.
	hr.	min.		
13	10	50 p.m.	I	Kingston 0.02
13	10	50 p.m.	II	Port Antonio and Mt. Holstein NE .008
26	9	30 p.m.	I	Mt. Holstein and Buff Bay

Magnetic Variation. The variation of the compass at the Kempshot Observatory in September was 2° 26′ E.

The Weather Office,
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

The Elevation of the Cinchona Plantation (Hill Gardens).

In the year 1904 The Colonial Survey Section, R.E., under Captain G. S. Knox, R.E., made an accurate triangulation of a number of stations near Kingston.

The station on Derby Peak, near Flamstead, was found to be 3227.3 feet; the station on Mt. Horeb near Newcastle, was found to be 4849.55 feet.

By means of the latter elevation that of Catherine's Peak was found to be 5050 feet by the Royal Engineers; and this elevation was verified in 1912 by Captain E. J. Pomeroy, of the Second West India Regiment.

At my request Captain Pomeroy ascertained the elevation of the Cinchona Plantation, now called Hill Gardens: by means of the elevation of Catherine's Peak the station at the Cinchona Plantation was found to be 4889.5 feet; by means of the elevation of Derby Peak, the station was found to be 4887.5 feet. But Captain Pomeroy preferred the former result, and gave 4889 feet as the elevation, with a probable error of less than 3 feet.

The station was on a terrace near the house; and Mr. William Harris, the Superintendent of Public Gardens, has kindly measured the height from the station to the level of the cistern of the barometer used many years ago by Sir Daniel Morris, and found it to be 11 feet, so that the cistern of the barometer was 4,900 feet above mean sea-level.

In the special Weather Report No. 386 attention was called to the value of the barometric observations made by Sir Daniel Morris: those made during the year 1882 were compared with the Kingston observations, and the computed elevation was 4,891 feet ; but the observations made during ensuing years should now be similarly reduced.

It so happens that early in 1886 I prepared all the observations made between October 1881 and the ed of 1885 for this purpose; they were arranged as monthly means, which seems most suitable; but the results must have been poor as explained in that special Weather Report on "The Barometer in Jamaica," which showed that the usual barometric rules require a good deal of adjustment for Jamaica.

The following are the observations:—

From October 1881 to December 1885, inclusive.

7 a.m.

Month.	Kingston.			Cinchona Pln.		
	Bar.	Temp.	Dew-pt.	Bar.	Temp.	Dew-pt.
	in.	°	°	in.	°	°
January ..	30.094	69.9	65.0	25.315	57.1	52.7
February ..	30.078	69.9	64.9	25.311	56.8	51.5
March ..	30.078	71.5	66.7	25.297	58.1	52.1
April ..	30.029	76.4	68.7	25.267	60.1	52.8
May ..	30.009	80.1	71.4	25.262	62.1	55.7
June ..	30.034	80.8	72.0	25.297	62.9	57.3
July ..	30.057	80.7	71.0	25.318	63.4	57.8
August ..	30.016	79.3	71.9	25.289	64.0	57.5
September ..	29.984	77.9	72.8	25.267	63.6	57.9
October ..	29.952	76.4	72.0	25.235	62.9	58.1
November ..	29.977	74.4	69.4	25.244	61.2	56.3
December ..	30.028	71.6	66.9	25.275	58.8	54.6
Means ..	30.028	75.7	69.4	25.281	60.9	55.4

Month.	3 p.m.					
	Kingston.			Cinchona Pln.		
	Bar.	Temp.	Dew-pt.	Bar.	Temp.	Dew-pt.
	in.	°	°	in.	°	°
January ..	30.021	83.0	70.2	25.294	62.8	58.0
February ..	30.006	82.3	69.7	25.284	61.9	57.5
March ..	30.008	82.1	70.8	25.277	62.2	58.8
April ..	29.956	82.9	71.5	25.243	63.2	59.9
May ..	29.944	83.5	72.9	25.246	64.1	61.0
June ..	29.972	85.0	74.4	25.285	66.6	62.7
July ..	29.989	86.0	73.5	25.307	68.5	62.5
August ..	29.952	85.5	74.2	25.272	67.2	63.1
September ..	29.916	85.5	74.4	25.241	66.4	63.2
October ..	29.887	84.4	73.6	25.206	64.7	62.7
November ..	29.905	84.5	72.5	25.211	64.3	60.9
December ..	29.952	83.7	71.3	25.240	63.3	59.2
Means ..	29.959	84.0	72.4	25.259	64.6	60.8

Reducing these observations according to the method explained in that special Weather Report, and making a slight correction by taking 4 instead of 2 as the co-efficient of the correction for diurnal variation, p. 7, we get the following series:—

	Elevation.	
	7 a.m.	3 p.m.
	ft.	ft.
January	4,898	4,890
February	4,878	4,885
March	4,885	4,895
April	4,890	4,897
May	4,901	4,892
June	4,900	4,892
July	4,905	4,894
August	4,897	4,896
September	4,896	4,889
October	4,889	4,889
November	4,891	4,895
December	4,890	4,890
Means	4,893	4,892

So that there can be no doubt that by using barometers and the constant 60,159, the elevation is 4,892 feet, which is 8 feet too small assuming Captain Pomeroy's result to be absolutely correct. In which case the constant should be increased to 60,260 for barometric work in Jamaica.

Maxwell Hall.

October, 7th 1912.

No. 409.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

OCTOBER, 1912.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32 gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standard only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.899	29.840	79.4	83.0	86.0	71.9	13.4	88.0	2nd	67.0	30th*	14.1
Kingston ..	24	29.866	29.810	75.5	84.0	88.5	73.6	14.9	92.1	6th	70.8	18th	21 3
Kempshot ..	1,773	29.887	29.835	71.6	74.8	80.3	70.3	10.0	83.0	3rd	67.2	16th	15.8
Negril Point Light House ..	33	29.871	29.824	77.4	84.0	87.4	72.3	15.1	92.9	4th	70.0	20th	22.9
Castleton Gardens ..	496	..	..	69.5	81.2	88.2	59.	29.2	93.	30th	57.	18th	36.
Hope Gardens† ..	668	29.889	29.797	73.2	83.8	86.6	69.8	16.8	90.	14th	68.	18th*	22.
Stony Hill Reformatory ..	1,400	..	..	70.1	77.8	82.3	66.7	15.6	87.	1st*	65.	14th*	22.
Hill Gardens ..	4,900	25.237	25.199	64.6	64.9	693.	57.1	10.2	74.	2nd	56.	26th	18.

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: (direction from and miles per hour.)				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	74.4	85	84.8	96	6.90	291	E	8.0	NE	9.0	5.2	2.1	1.6	5.5	2 3	1.8
Kingston ..	24	70.7	85	73.4	71	1.87	162	NNE	5.3	SE	11.1	1.7	0.6	2.5	3.3	1.5	2 7
Kempshot ..	1,773	67.8	88	70.5	86	13.57	107	E	4.5	Var.	3.0	0.5	1.4	3.0	5.2	2.6	1.2
Negril Point Light House‡ ..	33	71.9	83	72.8	69	4.91	171	ENE	6.5	ESE	88	2.0	0.7	3.0	4.2	3.0	0.8
Castleton Gardens ..	496	68.2	93	74.1	79	8.75	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	66.8	81	72.7	70	4.26	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Reformatory ..	1,400	67.8	92	72.2	82	12.30	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	60.1	84	62.9	93	7.97	..	..	..	..	..	..	..	..	..	..	..

† Hope Gardens. Bar. read at 9 a m. and 3 p m. * and on other days.
‡ Negril Point Light House. Wind 11 p.m. E.N.E. 6.1

RAINFALL FOR OCTOBER, 1912.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month, according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	OCTOBER, 1912. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01or more fell.	Average.
	In.	In.			In.
Manchioneal ...	14.44	4.10	9	17	18.91
Ecclesdown ...	19.33	3.65	10	17	...
Spring Valley .	18.08	2.65	8	20	...
Bath ...	11.46	2.60	16	22	18.37
Boston ...	4.90	1.45	14	20	13.11
Moore Town ...	19.50	...	...	...	21.93
Port Antonio ...	12.97	4.40	14	13	15.16
Fellowship ...	19.15	5.95	14	20	18.37
Windsor, Portland ...	19.03	7.00	14	14	...
Johnson River Bridge ...	11.39	1.75	10	17	13.85
Cedar Valley, St. Thos. ...	10.15	2.40	10	12	15.05
Moy Hall, St. Thos. ...	7.51	2.00	12	19	19.97
Lennox ...	11.32	2.60	28	14	..
Hill Gardens ...	7.97	2.65	20	18	18.20
Buff Bay ...	7.48	2.04	16	14	11.76
Vinery ...	7.77	2.20	26	13	...
Windsor Castle, Port. ...	9.37	2.44	16	12	...
Greenvale, Portland ...	11.06	2.78	23	21	..
Mt. Holstein ...	4.31	1.11	7	21	12.72
Irish Town ..	6.41	1.57	16	7	...
Hardware Gap ...	9.00	...	...	..	16.36
Stony Hill Reform. ...	12.30	3.30	10	28	14.38
Castleton Gardens ...	8.75	2.45	27	24	15.48
Lawrence Tavern ...	11.26	2.08	27	18	12.71
Catew Castle ...	12.01	2.84	20	25	13.03
Agualta Vale ...	4.43	0.83	22	16	...
Water Valley ...	4.82	1.79	22	9	7.93
Albany, Ry. Station ..	5.72	1.74	28	9	...
Platfield ...	7.80	2.25	27	14	...
Richmond, St. Mary ...	8.08	1.90	26	15	9.83
Hampstead, St. Mary ...	13.99	3.55	28	13	...
Kendal, St. Mary ...	5.86	1.45	11	12	...
Gayle ...	6.89	1.52	27	10	10.04
Rio Hoe ...	7.70	1.86	27	15	9.64
Unity Valley ...	13.49	3.63	10	17	9.50
Moneague ...	8.88	1.65	27	14	9.94
Union Hill ...	...	...	...	...	...
Claremont ...	6.46	1.02	11	13	8.41
Albion, St. Ann ...	7.82	1.47	27	19	9.02
Averham Park ...	5.87	1.23	27	14	9.35
Means ..	9.76	..	...	...	...

NORTHERN DIVISION.	OCTOBER, 1912. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	6.65	1.28	16	15	8.86
Ocho Rios ...	3.85	1.20	9	7	4.84
Bogue, Ocho Rios ...	7.35	1.46	27	15	...
Arthurs Seat ...	...	...	...	..	...
Drax Hall ...	6.25	3.15	27	11	7.58
Liberty Hill. ...	9.75	2.85	30	12	...
St. Ann's Bay ...	...	...	...	...	...
Seville ...	8.26	3.60	27	16	7.09
Richmond Estate ...	10.29	4.70	27	14	7.56
Llandovery ...	8.32	3.18	27	14	7.48
Southfield, St. Ann ...	...	...	...	...	...
Brown's Town ...	6.83	3.60	27	7	8.98
Hyde Park ...	...	...	...	...	...
Dry Harbour ...	...	...	...	...	...
Chewmagna, St. Ann ...	11.92	3.00	27	16	8.35
Home Castle ...	4.35	2.05	27	7	7.14
Richmond Pen ...	...	...	..	...	...
Mahogany Hall ...	...	...	...	...	...
Barnstaple ...	7.39	4.78	27	11	...
Brampton Bryan ...	6.76	3.84	27	8	5.22
Bryan Castle ...	3.94	1.60	27	10	5.81
Braco ...	3.21	0.85	16	8	5.42
Arcadia ...	6.69	2.60	27	8	6.24
Lancaster ...	3.30	0.70	22	8	5.96
Harmony Hall ...	2.91	0.65	5	9	5.42
Vale Royal ...	4.88	2.27	27	8	6.69
Colchis Pen ...	4.37	1.45	27	10	8.53
Swanswick ...	4.13	1.57	27	5	...
Hyde ...	...	...	...	...	...
Georgia ...	...	...	...	...	...
Long Pond ...	3.40	1.90	27	8	5.95
Hyde Hall ...	...	..	...	...	...
Steelfield ...	2.37	1.06	27	6	6.00
Etingdon ...	...	...	...	...	...
Oxford ...	...	...	...	...	...
Cambridge ...	.	..	...	...	...
Lottery ...	3.80	2.20	27	10	6.34
Falmouth ...	...	...	...	...	...
Florence Hall ...	3.29	2.00	26	7	...
Holland Pen ...	...	...	...	...	...
Orange Valley ...	...	...	...	...	...
Kent ...	2.66	0.55	11	5	6.48
Gales Valley ...	4.62	0.97	15	9	7.29
Canaan ...	...	...	...	..	...
Content ...	5.10	2.35	27	7	6.49
Bellfield ...	5.24	2.30	15	9	...
Hampden ...	..	...	...	...	...
Moor Park ...	4.90	1.72	15	10	...
Success ...	1.10	0.50	11	6	6.39
Guilsbro ...	..	..	...	...	...
Cinnamon Hill ...	1.55	0.69	11	7	6.73
Rose Hall ...	1.20	0.40	11	7	6.11
Running Gut ...	1.76	0.60	11	7	5.42
Spring ...	3.35	1.13	29	7	...
Montego Bay ...	7.91	1.90	5	16	7.97
Catherine Hall ...	7.98	1.99	5	13	...
King Gate ...	11.39	2.10	5	17	9.12
Round Hill ...	...	...	...	...	...
Sandy Bay ...	14.55	3.15	21	11	9.04
Haughton Court .	...	...	...	...	...
Lucea ...	9.20	2.58	4	13	8.52
Westfield ...	...	...	..	...	...

Central Sub-Division.	October, 1912. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Rio Magno ...	8.47	1.10	11	18	...
Headworks, Rio Cobre ...	7.52	2.40	1	13	9.79
Linstead ...	8.03	1.25	1	14	10.32
Berkshire Hall ...	5.44	0.92	11	17	...
Point Hill ...	14.73	3.20	7	16	16.83
Brown's Hall .	9.79	2.60	28	14	11.62
Worthy Park ...	15.86	3.51	11	13	10.41
Crofts Hill ...	9.71	3.30	11	15	...
Chapelton ...	8.65	2.91	11	18	11.81
Mears ...	...	...	.	...	...
Danks Works ...	10.82	3.17	11	15	12.41
Savoy House ...	9.62	3.20	11	6	9.96
Trout Hall ...	8.14	2.73	11	13	...
Cave Valley ..	10.55	3.00	27	15	9.58
Greenock ...	10.35	3.20	27	15	...
Means ...	6.70	...	...	...	...
West-Central Division.					
Whitney ...	11.25	5.20	11	16	...
Mocho, Clarendon ...	12.30	8.00	11	7	...
Baillieston ...	6.91	1.13	12	10	10.70
Brokenhurst ...	6.66	3.05	11	14	14.94
Christiana ...	9.27	2.58	20	14	12.84
Chudleigh ...	11.42	2.83	27	19	...
Shooter's Hill ...	9.21	1.64	15	19	...
Spitzbergen ...	9.81	2.53	27	19	...
Kendal, Manchester ...	8.64	1.46	11	19	14.96
Marshalls Pen ...	8.53	1.75	17	14	12.81
Mandeville ...	7.11	1.44	18	17	16.56
Carlton, Mandeville ...	...	...	...	...	...
The Hill ...	7.76	1.47	29	15	...
Fairfield, Manchester ...	7.11	1.35	11	19	10.60
Ulster Spring ...	8.50	1.00	28	14	10.19
Albert Town ...	12.24	1.55	6	15	...
Low River ...	..	...	...	...	...
Troy ...	11.32	1.59	1	16	16.50
Windsor Pen, Trel. ...	9.31	1.90	15	16	9.49
Wallingford ...	15.72	3.34	27	21	...
Balaclava Police Station ...	13.35	2.87	27	14	13.38
Siloah ...	10.59	3.20	10	15	...
Santa Cruz ...	9.97	3.08	27	10	12.01
Appleton Estate ...	12.50	3.18	27	18	14.04
Maggotty ...	10.79	2.70	27	20	15.30
Butter's ...	14.40	2.20	17	18	...
Spring Vale ...	9.31	1.56	1	11	10.42
Ipswich, Ry. St. ...	...	...	...	...	...
Springfield, St. Eliz. ...	...	..	...	...	...
Catadupa Rly. Station ...	18.92	3.80	17	22	...
Kempshot ...	13.57	4.15	10	22	9.60
Cambridge ...	20.06	3.10	27	20	...
Hazelymph ...	18.61	2.34	1	24	10.66
New Market ...	10.09	2.53	1	18	...
Kew Park ...	14.01	2.19	7	21	11.68
Montpelier ...	...	..	...	...	...
Knockalva .	15.03	2.00	10	15	...
Ramble ...	13.27	2.00	10	16	..
Petersville ...	8.73	2.70	25	13	11.33
Darliston ...	13.00	2.21	1	22	..
Whithorn ...	13.97	3.40	4	24	11.93
Great Valley, Han. ...	...	...	...	...	...
Brownsville ...	...	...	...	...	...
Fort William ...	...	...	...	...	...
George's Plain ...	...	...	...	...	...
Fontabelle, Westm. ...	...	...	...	...	...
Belleisle ...	7.43	2.01	6	11	9.53
Morgan's Bridge ...	16.27	2.95	25	16	12.94
Glasgow Estate ...	...	...	...	...	...
King's Vale Police St. ...	11.85	2.45	24	19	10.25
Means ...	10.68	...	...	...	...

Southern Division.	October, 1912. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	6.90	0.83	28	25	11.71
East Prospect ...	7.28	1.54	23	20	...
Morant Bay ...	9.87	2.74	10	18	14.22
Easington ...	11.13	1.50	13	14	14.22
Bull Bay ...	0.60	..	...	...	10.26
Bellevue ...	6.88	1.71	10	16	...
Gordon Town ...	5.52	0.90	9	13	14.15
Hope Gardens ...	4.26	0.64	14	23	10.79
King's House Gardens ...	4.39	1.06	10	20	11.99
Halfway Tree ...	2.32	0.80	10	5	9.90
Lunatic Asylum ...	2.63	0.67	21	15	7.93
Kingston S. Camp Road ...	2.65	1.05	11	15	...
" Parade Gard. ...	2.28	1.15	11	15	...
" P. W. Office ..	1.87	0.92	11	15	8.15
Plumb Point L. H. ...	1.42	0.46	9	11	7.67
Ballast Ground ...	4.51	2.13	11	7	...
Quarantine Station ...	1.12	0.33	11	8	..
Spanish Town ...	3.65	0.62	10	9	9.59
Hog Hole Pen ...	3.27	1.06	12	5	10.09
Hartlands ...	3.47	1.98	17	6	...
Belmont ...	9.69	2.37	19	17	...
Old Harbour ...	5.50	2.10	16	8	11.07
May Pen ...	6.43	2.15	11	13	11.57
Hillside Estate ...	...	...	...	...	...
Amity Hall ...	7.47	3.20	11	8	...
Money Musk ...	...	...	...	...	...
Dunkley's, Vere ...	6.09	2.97	11	10	7.01
Dry River " ...	5.45	2.80	11	10	...
Caswell Hill " ...	...	...	..	...	...
Denbigh ...	5.55	2.00	11	6	10.11
Toll Gate ...	11.85	6.23	11	14	...
Woodleigh ...	6.00	1.90	11	6	...
New Yarmouth ...	6.78	3.86	11	13	9.20
Exeter, Vere ...	...	...	...	...	...
Rhymesbury ...	6.75	4.17	11	11	8.49
Milk River ...	5.77	3.00	11	6	7.56
Clarendon Pk. Ry. St. ...	...	...	...	...	. .
Victoria Town ...	7.71	3.98	11	10	11.55
Stone's Hope ...	5.29	1.75	11	12	13.35
Newport, Manchester ...	5.93	1.64	17	11	13.26
Great Valley, Man. ...	4.81	1.92	11	12	11.37
Alligator Pond ...	4.87	1.87	11	6	8.77
Lititz ...	5.43	1.61	27	13	...
Long Hill ...	...	...	...	...	...
Unity, Malvern ...	...	...	...	...	...
Bethlehem, St. Eliz. ...	9.64	2.90	26	17	11.86
Torrington ...	9.26	1.90	11	12	11.26
Pedro Plains ...	2.49	0.87	11	7	6.60
Black River ...	5.77	1.48	6	13	8.74
Font Hill ...	5.45	1.90	26	10	9.95
Mount Edgecombe ...	12.64	3.52	26	20	10.05
Bluefields ...	10.87	1.93	1	19	...
Sweet River ...	8.13	1.15	4	13	10.06
Windsor, Sav.-la-mar ...	10.58	2.80	10	19	8.40
Orchard, Sav.-la-mar ...	11.24	2.62	10	17	...
Sav.-la-mar ...	8.49	2.90	10	14	8.99
Retreat ...	4.60	1.34	11	15	10.96
White Hall ...	4.10	1.39	11	14	...
Negril Point L.H ...	4.91	1. 9	11	13	8.37
Negril Pol. Sta. ...	4.97	1.13	11	16	...
Means ...	5.85	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

—	October.	
	1912.	Average.
	In.	In.
North-Eastern Division ...	9.76	13.22
Northern ...	6.70	7.46
West-Central ...	10.68	12.02
Southern ...	5.85	10.28
The Island ...	8.25	10.75

The heaviest rainfall, 20.06 inches, was recorded at Cambridge in the West-Central Division; and the smallest, 0.60, inch, at Bull Bay.

Rainfall at Grand Cayman. September, 1912.	Total Fall.	Greatest fall.		No. of days on which 0.01 or more fell.
		Amount.	Date.	
East End ...	5.50	1.69	15	10
Bodden Town ...	2.60	1.20	18	8
George Town ...	..	..	..	..

Shocks of Earthquake in October, 1912.

Date.	Mean time.		Intensity.	Notes: where felt, etc.
	hr.	min.		
25th	2	15 a.m.	I	Kingston and Half-way Tree N. .004 in.
				Mt. Holstein N. .006

Magnetic Variation. The variation of the compass at the Kempshot Observatory in October was 2° 30′ E.

The Weather Office,
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

No. 410.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

NOVEMBER, 1912.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32 gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standard only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.901	29.845	78.4	81.3	83.6	71.3	12.3	86.5	*2nd	65.0	*2nd	21.5
Kingston ..	24	29.857	29.807	74.3	81.5	85.9	72.6	13.3	90.5	4th	69.8	30th	20 7
Kempshot ..	1,773	29.862	29.813	70.2	72.6	76.7	69.2	7.5	82.5	21st	65.2	26th	16.3
Negril Point Light House ..	33	29.820	29.800	76.9	81.6	84.7	73.3	11.4	88.6	29th	70.8	27th	17.8
Castleton Gardens ..	496	..	..	71.2	80.	85.	60.2	24.8	91.	1st	55.	2nd	36.
Hope Gardens† ..	668	29.884	29.800	75.	80.	84.3	69.3	15.0	90.	30th	67.	1st	23.
Stony Hill Reformatory ..	1,400	..	..	70.1	75.3	78.7	66.4	12.3	84.	*3rd	63.	12th*	21.
Hill Gardens ..	4,900	25.237	25.185	63.4	63.8	67.5	57.2	10.3	73.	9th	54.	11th	19.

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: (direction from and miles per hour.)				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	74.7	89	76.1	84	18.65	..	Var.	13.7	Var.	..	4.5	2.1	1.5	4.6	2.0	2.0
Kingston ..	24	71.0	90	73.4	77	10.68	196	ENE	7.5	SE	10.1	2.9	0.8	1.6	5.8	1.2	0.9
Kempshot ..	1,773	68.3	94	70.0	92	20.75	199	E	8.1	Var.	4.9	3.5	1.1	2.2	5.5	1.5	0.4
Negril Point Light House‡ ..	33	72.5	86	73.7	77	28.29	311	NE	9.2	NE	13.8	3.3	2.6	1.6	5.3	2.6	0.9
Castleton Gardens ..	496	69.1	90	73.5	82	45.42	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	63.	66	72.9	77	33.17	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Reformatory ..	1,400	68.9	95	72.3	90	39.85	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	60.8	93	61.8	93	62.88	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m. N.E. by E. 15.3

RAINFALL FOR NOVEMBER, 1912.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month, according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	NOVEMBER, 1912. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	23.95	3.78	12	22	14.23
Ecclesdown ...	46.67	9.00	18	23	...
Spring Valley .	30.71	5.25	13	24	...
Bath ...	31.78	5.30	7	23	12.95
Boston ...	12.84	1.55	16	19	13.51
Moore Town ...	46.18	...	...	...	34.15
Port Antonio ...	24.25	3.62	17	17	16.39
Fellowship ...	38.00	0.68	20	24	27.19
Windsor, Portland ...	...	...	...	.	...
Johnson River Bridge ...	26.84	5.27	12	22	6.70
Shrewsbury ...	31.92	3.75	17	24	..
Cedar Valley, St. Thos. ...	52.84	12.10	12	18	13.09
Moy Hall, St. Thos. ...	73.14	16.10	13	20	13.14
Lennox ...	31.90	6.00	12	21	..
Hill Gardens ...	82.88	10.75	10	26	14.71
Buff Bay ...	23.69	3.70	12	18	16.12
Vinery ...	25.09	5.80	25	17	...
Windsor Castle, Port. ...	17.72	3.53	25	16	...
Greenvale, Portland ...	41.19	6.51	12	25	..
Mt. Holstein ...	54.70	14.38	10	25	26.11
Irish Town ..	41.00	11.50	12	12	...
Hardware Gap ...	90.40	...	...	...	...
Stony Hill Reform. ...	39.85	11.30	10	23	7.14
Castleton Gardens ...	45.42	11.65	16	21	14.42
Lawrence Tavern ...	41.24	14.00	10	16	...
Carew Castle ..	33.23	8.00	16	13	...
Agualta Vale ...	19.24	2.90	12	22	...
Water Valley ...	20.37	2.63	12	19	10.01
Albany, Ry. Station ..	23.49	3.33	12	19	...
Platfield ...	33.49	7.70	10	19	...
Richmond, St. Mary ..	29.59	3.82	18	19	11.65
Hampstead, St. Mary ...	33.98	4.47	17	22	...
Kendal, St. Mary ...	43.61	7.45	25	18	...
Gayle ...	...	...	...	...	...
Rio Hoe ...	44.76	10.05	12	21	9.40
Unity Valley ...	56.25	10.80	16	26	9.01
Moneague ...	54.92	14.70	16	22	9.90
Union Hill ...	...	...	...	...	...
Claremont ...	49.64	12.74	16	25	10.48
Albion, St. Ann ...	40.69	7.66	16	26	9.74
Averham Park ...	53.96	12.60	16	18	11.85
Means ..	41.21	..	...	...	...

NORTHERN DIVISION.	NOVEMBER, 1912. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	18.68	2.75	25	23	10.69
Ocho Rios ...	28.29	6.16	17	21	7.73
Bogue, Ocho Rios ...	35.29	7.00	12	16	...
Arthurs Seat ...	...	...	...	..	...
Drax Hall‡ ...	24.25	7.55	16	17	10.04
Liberty Hill ...	36.59	8.30	12	17	...
St. Ann's Bay ...	25.60	6.10	12	22	9.00
Seville ...	30.73	8.00	16	20	9.80
Richmond Estate ...	27.90	7.90	16	18	9.42
Llandovery ...	...	...	...	...	...
Southfield, St. Ann ...	...	...	...	...	...
Brown's Town ...	44.50	9.82	25	14	10.58
Hyde Park ...	...	...	...	...	...
Dry Harbour ...	11.76	3.40	12	17	7.69
Chewmagna, St. Ann ...	23.20	4.65	16	21	6.91
Home Castle ...	33.00	5.65	25	23	7.35
Richmond Pen ...	...	...	..	...	...
Mahogany Hall ...	...	...	...	...	...
Barnstaple ...	34.47	6.46	29	19	...
Brampton Bryan ...	27.24	6.40	12	18	5.72
Bryan Castle ...	25.15	6.00	12	20	6.40
Braco ...	23.15	6.00	12	22	5.88
Arcadia ...	29.16	5.03	25	20	6.47
Lancaster‡ ...	24.30	6.00	12	19	6.34
Harmony Hall ...	21.52	6.80	12	20	5.75
Vale Royal ...	35.20	6.00	12	21	7.30
Colchis Pen ...	15.92	1.60	25	21	5.81
Swanswick ...	26.47	4.07	25	18	...
Hyde ...	...	...	...	...	...
Georgia ...	...	...	...	...	...
Long Pond ...	28.50	6.60	29	20	5.52
Hyde Hall ...	27.76	6.05	29	20	5.14
Steelfield ...	24.68	3.60	29	20	5.90
Etingdon ...	24.05	4.20	25	17	5.37
Oxford ...	...	...	...	...	...
Cambridge ...	..	..	...	...	...
Lottery ...	33.65	5.60	29	22	5.38
Falmouth ...	...	...	...	...	...
Florence Hall ...	23.39	3.01	18	20	...
Holland Pen ...	...	...	...	...	...
Orange Valley ...	...	...	...	...	...
Kent ...	26.15	6.96	18	17	4.91
Gales Valley* ...	13.72	3.75	17	11	4.84
Canaan ...	...	...	...	...	...
Content ...	30.50	6.50	25	18	4.68
Bellfield‡ ...	33.13	5.90	26	19	...
Hampden ...	..	...	...	...	...
Moor Park ...	35.80	7.30	18	19	...
Success ...	25.01	6.30	18	21	4.52
Guilsbro ...	...	...	...	...	...
Cinnamon Hill ...	25.25	5.10	18	21	4.64
Rose Hall ...	25.48	5.40	18	21	4.50
Running Gut† ...	25.14	5.60	18	21	4.57
Spring† ...	27.88	5.80	18	21	...
Montego Bay ...	35.70	7.70	18	25	4.30
Catherine Hall ...	35.89	7.70	18	23	4.58
King Gate ...	30.79	5.50	19	20	3.86
Round Hill ...					
Sandy Bay ...					
Haughton Court .					
Lucea ...					

* Gauge blown away.
† Top of gauge blown away.
‡ Gauge overflowed.

CENTRAL SUB-DIVISION.	NOVEMBER, 1912.				
	Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Rio Magno ...	29.47	6.65	11	18	...
Headworks, Rio Cobre ...	23.44	5.50	12	20	4.74
Linstead ...	33.23	8.00	16	13	5.92
Berkshire Hall ...	28.56	6.00	10	29	...
Point Hill ...	46.23	11.32	16	20	10.16
Brown's Hall ...	39.25	17.48	17	16	8.13
Worthy Park ...	29.58	9.12	16	15	4.18
Crofts Hill ...	23.53	6.14	2	17	...
Chapelton ...	23.19	5.50	16	19	4.49
Danks Works ...	21.34	5.50	16	16	4.99
Savoy House ...	21.43	4.97	16	20	5.62
Trout Hall ...	24.27	5.45	17	18	...
Cave Valley ..	35.20	10.40	16	...	...
Greenock ...	34.90	10.65	16	...	...
Means ...	27.30	...	...	...	...
WEST-CENTRAL DIVISION.					
Whitney ...	Record	lost.	...	...	...
Mocho, Clarendon ...	26.30	5.40	16	18	...
Baillieston ...	22.72	5.00	16	16	5.25
Brokenhurst ...	25.95	5.90	17	18	6.21
Christiana ...	20.82	5.61	17	19	6.82
Chudleigh ...	32.85	11.04	17	19	...
Shooter's Hill ...	29.93	9.26	17	25	...
Spitzbergen ...	27.86	8.53	17	24	...
Kendal, Manchester ...	28.26	8.97	17	24	5.99
Marshalls Pen‡ ...	29.46	6.95	16	23	6.10
Mandeville ...	37.10	10.50	17	22	6.29
Carlton, Mandeville ...	18.96	5.50	16	23	...
The Hill ...	29.55	8.44	17	23	...
Fairfield, Manchester ...	27.09	6.13	17	25	6.49
Ulster Spring ...	27.54	4.10	18	19	6.46
Albert Town ...	19.40	3.05	17	17	...
Low River ...	..	...	...	...	...
Troy ...	20.53	3.24	16	18	6.46
Windsor Pen, Trel. ...	16.71	2.55	13	19	6.03
Wallingford ...	25.00	4.37	15	20	...
Balaclava Police Station ...	20.03	3.86	16	15	5.91
Siloah ...	19.68	3.80	15	18	...
Santa Cruz ...	18.51	4.40	17	16	5.89
Appleton Estate ...	19.43	3.67	17	19	6.04
Maggotty ...	18.55	3.80	17	19	6.80
Butler's ...	16.93	3.80	15	20	...
Spring Vale ...	27.38	5.35	16	18	6.08
Ipswich, Ry. St. ...	...	...	...	...	...
Springfield, St. Eliz. ...	...	..	...	...	...
Catadupa Rly. Station ...	25.66	4.00	16	19	...
Kempshot† ...	20.76	3.76	16	27	6.18
Cambridge ...	...	...	...	...	...
Hazelymph* ...	28.59	5.92	18	22	5.14
New Market ...	18.35	6.10	17	20	...
Kew Park† ...	19.82	4.63	17	22	5.52
Montpelier ...	...	..	...	...	...
Knockalva .	...	...	...	...	...
Ramble‡ ...	27.28	7.00	17	21	..
Petersville ...	17.44	5.40	17	15	6.49
Darliston ...	21.54	5.10	17	21	7.48
Whithorn ...	17.79	6.50	17	24	6.92
Great Valley, Han.‡ ...	24.31	7.45	17	21	...
Brownsville ...	...	...	..	...	...
Fort William ...	...	...	...	...	...
George's Plain ...	...	...	...	...	...
Fontabelle, Westm. ...	...	...	...	...	...
Belleisle ...	...	...	...	..	...
Morgan's Bridge ...	16.11	4.10	17	13	5.30
Glasgow Estate ...	...	...	...	..	...
King's Vale Police St. ...	...	...	...	...	..
Means ...	22.82	...	...	...	...

SOUTHERN DIVISION.	NOVEMBER, 1912.				
	Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	18.65	3.90	11	22	6.90
East Prospect ...	26.95	4.81	17	27	...
Morant Bay ...	17.44	3.43	12	19	6.44
Easington ...	22.47	4.47	17	21	5.35
Bull Bay ...	6.78	...	...	...	...
Bellevue ...	50.45	12.88	12	19	...
Gordon Town ...	39.73	10.30	12	14	...
Hope Gardens ...	33.17	10.75	12	20	6.35
King's House Gardens ...	25.30	8.96	12	23	3.31
Halfway Tree ...	19.40	5.50	12	10	...
Lunatic Asylum ...	12.98	3.77	12	13	3.57
Kingston S. Camp Road ...	14.23	3.50	12	15	...
" Parade Gard. ...	14.20	3.30	12	12	...
" P. W. Office ..	10.68	3.11	12	14	3.00
Plumb Point L. H. ...	8.18	1.83	15	13	2.32
Ballast Ground ...	32.39	9.00	12	12	...
Quarantine Station ...	7.72	1.58	12	11	..
Spanish Town ...	14.39	3.26	16	16	3.56
Hog Hole Pen ...	19.28	4.16	17	18	4.34
Hartlands ...	18.10	4.60	17	12	...
Belmont ...	23.39	4.82	12	19	...
Old Harbour ...	27.04	9.50	18	13	3.60
May Pen ...	12.70	2.92	16	18	4.51
Hillside Estate ...	...	...	...	...	...
Amity Hall ...	...	...	..	...	...
Money Musk ...	...	...	...	...	...
Dunkley's, Vere ...	14.14	2.87	15	16	3.92
Dry River " ...	10.95	2.30	16	15	...
Caswell Hill " ...	...	...	...	...	...
Denbigh ...	12.50	3.00	16	11	4.79
Toll Gate ...	17.76	4.50	16	20	...
Woodleigh ...	13.89	3.50	16	11	...
New Yarmouth ...	10.66	2.22	16	15	2.66
Exeter, Vere ...	...	...	...	...	...
Rhymesbury ...	12.00	2.57	16	20	3.58
Milk River ...	9.29	2.74	14	14	4.26
Clarendon Pk. Ry. St. ...	...	...	...	...	...
Victoria Town ...	11.99	3.04	16	10	4.53
Stone's Hope ...	18.41	4.46	17	17	5.01
Newport, Manchester ...	33.16	9.19	18	18	6.29
Great Valley, Man. ...	12.89	2.43	16	15	4.24
Alligator Pond ...	9.29	2.25	15	9	2.97
Lititz ...	7.65	1.70	15	13	...
Long Hill ...	Record	lost.	...	...	...
Unity, Malvern ...	...	...	...	...	...
Bethlehem, St. Eliz. ...	17.94	4.28	16	23	7.32
Torrington ...	16.60	4.40	18	16	6.99
Pedro Plains ...	13.00	3.33	15	18	4.01
Black River ...	8.54	2.15	15	14	4.53
Font Hill ...	8.50	3.25	15	12	5.32
Mount Edgecombe ...	11.86	2.46	15	17	5.00
Bluefields ...	...	...	...	...	...
Sweet River* ...	5.85	2.30	16	7	3.80
Windsor, Sav.-la-mar ...	14.33	3.67	30	14	3.64
Orchard, Sav.-la-mar† ...	13.64	4.12	...	14	...
Sav.-la-mar ...	17.10	5.30	17	13	3.10
Retreat ...	24.10	3.65	16	16	4.79
White Hall ...	Record	lost.	...	...	...
Negril Point L.H ...	28.29	12.79	18	22	3.21
Negril Pol. Sta. ...	Record	lost.	...	...	...
Means ...	15.63	...	...	...	...

* Gauge blown away.
† Top of gauge blown away.
‡ Gauge overflowed.

NOTES.

COMPARATIVE TABLE OF RAINFALL.

(Based upon the "Average" Stations only.)

—	November. 1912.	November. Average.
	In.	In.
North-Eastern Division ...	41.21	13.54
Northern ...	27.30	5.91
West-Central ...	22.82	5.74
Southern ...	15.63	4.56
The Island ...	26.74	7.44

The heaviest rainfall, 90.40 inches, was recorded at Hardware Gap; and the smallest, 6.78 inches, at Bull Bay. These very heavy rains were due to a series of storms and hurricanes from the 10th to the end of the month. A Preliminary Report giving the approximate tracks of the two great hurricanes on the 18th was published as a Special Gazette Dec. 21st, 1912; but a Special Weather Report has been prepared, giving the tracks with greater accuracy, and all the observations on which it was based, which will be published in due course.

Rainfall at Grand Cayman. October, 1912.	Total Fall.	Greatest fall. Amount.	Greatest fall. Date.	No. of days on which 0.01 or more fell.
East End ...	10.82	3.10	7	14
Bodden Town ...	7.89	2.65	27	11
George Town ...	..	..	..	..

SHOCKS OF EARTHQUAKE IN NOVEMBER, 1912.

Date.	Mean time. hr.	Mean time. min.	Intensity.	Notes: where felt, etc.
4th	3	45 a.m.	I	Windsor Pen, Trel.
6th	12	19 a.m.	I	Kingston, NE. .005 in.
9th			I	Mt. Holstein E. .006 in.
27th	1	30 a.m.	I	Falmouth.

MAGNETIC VARIATION. The variation of the compass at the Kempshot Observatory in November was 2° 27′ E.

The Weather Office,
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

51.05
J7

No. 412.

UNIVERSITY OF ILLINOIS
26 F '13

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

DECEMBER, 1912.

The Bar-pressures at all the Stations except the Hill Gardens, are reduced to the standards of Kew, 32 gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standard only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.982	29.933	79.0	81.0	82.5	72.0	10.5	83.5	*5th	62.0	17th	21.5
Kingston ..	24	29.952	29.895	71.3	82.6	87.3	69.8	17.5	90.1	30th	67.3	31st	22 8
Kempshot ..	1.773	..	..	..	..	..	..	..	..	..	..	..	.
Negril Point Light House ..	33	29.969	29.913	75.0	83.0	85.9	71.4	14 5	89 3	7th	65.9	31st	23.4
Castleton Gardens ..	496	..	..	68.7	82.4	86 3	57.4	28.9	91.	4th	51.	30th	40.
Hope Gardens† ..	668	29.982	29.838	69.7	85.4	86.8	67.	19.8	90.	1st	64.	17th	26.
Stony Hill Reformatory ..	1,400	..	..	68.6	78.8	80 9	65.0	15.9	86.	12th	62.	*18th	24.0
Hill Gardens ..	4.900	25.294	25.247	61.1	64.	68 8	55.6	13.2	74.	12th	53.	17th	21.

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: (direction from and miles per hour.)				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	72.4	80	72.6	76	3.85	..	E	13.6	E	12.6	1.0	2.3	2.4	0.5	2.2	2.5
Kingston ..	24	67.3	87	70 9	68	0 08	145	N	4.7	SE	10.3	0.9	0.7	0.7	2.0	1.7	0 7
Kempshot ..	1,773	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Negril Point Light House‡ ..	33	68.9	81	72.2	70	3.30	..	NE by E	5.5	Var.	10.8	1.0	0.9	0.6	1.3	4 0	0.4
Castleton Gardens ..	496	66.9	93	71.1	61	16.33	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	64.0	81	71.0	63	0.36	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Reformatory ..	1,400	66.1	91	75.3	89	..	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	57.0	86	60.0	87	3.90	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p m.
‡ Negil Point Dight House. Wind 11 p m. E N.E.

RAINFALL FOR DECEMBER, 1912.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month, according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	DECEMBER, 1912. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	...	...	..	...	...
Ecclesdown ...	13.71	3.05	23	22	...
Spring Valley .	8.42	1.35	23	17	...
Bath ...	6.00	0.88	13	23	8.80
Boston ...	1.50	1.00	24	2	9.92
Moore Town ...	18.70	...	...	...	25.39
Port Antonio ...	7.91	1.35	19	15	13.78
Fellowship ...	11.03	1.93	20	22	19.98
Windsor, Portland ...	17.02	4.10	20	16	...
Johnson River Bridge ...	3.37	0.67	31	19	5.53
Shrewsbury ...	12.60	1.90	20	24	..
Cedar Valley, St. Thos. ...	1.39	0.35	24	6	5.52
Moy Hall, St. Thos. ...	2.93	0.52	16	13	5.94
Lennox ...	9.25	2.00	31	13	..
Hill Gardens ...	3.90	...	...	...	...
Buff Bay ...	5.51	1.15	24	14	11.81
Vinery ...	7.01	1.26	24	18	...
Windsor Castle, Port. ...	6.78	2.02	24	18	...
Greenvale, Portland ...	20.65	5.31	20	25	..
Mt. Holstein ...	22.02	12.44	20	23	17.04
Irish Town ..	2.11	1.00	15	4	...
Hardware Gap ...	8.75	...	...	...	6.86
Stony Hill Reform. ...	4.27	2.52	20	6	4.16
Castleton Gardens ...	16.33	...	..	...	...
Lawrence Tavern ...	9.91	7.58	20	6	...
Carew Castle ..	9.21	5.83	20	14	4.49
Agualta Vale ...	5.48	1.96	24	15	...
Water Valley ...	8.87	1.99	24	18	6.83
Albany, Ry. Station ..	8.05	1.77	23	17	...
Platfield ...	5.62	1.75	20	10	...
Richmond, St. Mary ..	5.40	1.04	27	13	9.50
Hampstead, St. Mary ...	15.31	3.56	9	23	...
Kendal, St. Mary ...	4.07	1.65	21	11	...
Gayle ...	9.32	1.20	9	20	10.88
Rio Hoe ...	5.81	1.07	5	14	9.10
Unity Valley ...	4.47	0.78	20	16	7.66
Moneague ...	...	...	...	...	...
Union Hill ...	...	...	...	...	...
Claremont ...	...	.	...	...	...
Albion, St. Ann ...	5.41	1.65	8	20	8.19
Averham Park ...	10.32	1.60	13	14	10.41
Means ..	7.56	..	...	...	...

NORTHERN DIVISION.	DECEMBER, 1912. Total fall.	Greatest fall in 21 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	6.75	1.39	17	9	8.06
Ocho Rios ...	6.20	1.40	26	14	5.74
Bogue, Ocho Rios ...	...	...	...	...	...
Arthurs Seat ...	...	...	...	..	...
Drax Hall ...	7.25	1.46	8	13	8.47
Liberty Hill ...	9.80	2.50	13	12	...
St. Ann's Bay ...	86.64	1.25	8	19	7.07
Seville ...	6.12	1.07	9	16	7.77
Richmond Estate ...	...	...	...	...	...
Llandovery ...	5.27	1.43	8	9	8.17
Southfield, St. Ann ...	...	...	...	...	...
Brown's Town ...	5.32	0.96	9	10	8.85
Hyde Park ...	...	...	...	...	...
Dry Harbour ...	2.35	0.90	9	7	5.62
Chewmagna, St. Ann ...	3.15	1.00	15	10	3.38
Home Castle ...	3.20	0.75	8	10	7.63
Richmond Pen ...	...	...	..	...	...
Mahogany Hall ...	...	...	...	...	...
Barnstaple ...	3.38	0.88	9	9	...
Brampton Bryan ...	2.90	0.80	19	9	5.78
Bryan Castle ...	3.82	1.20	26	11	6.54
Braco ...	3.25	1.00	26	8	5.80
Arcadia ...	3.66	0.80	26	8	6.78
Lancaster ...	2.71	1.05	26	6	6.54
Harmony Hall ...	2.43	0.62	8	12	6.13
Vale Royal ...	2.53	0.70	26	6	7.88
Colchis Pen ...	1.35	0.50	20	4	4.47
Swanswick ...	2.44	0.67	8	8	...
Hyde ...	...	...	...	...	...
Georgia ...	...	...	...	...	...
Long Pond ...	2.53	0.38	19	9	4.37
Hyde Hall ...	2.45	0.77	8	7	5.35
Steelfield ...	3.55	1.05	13	9	6.36
Etingdon ...	2.99	0.90	13	7	4.71
Oxford ...	...	...	...	...	...
Cambridge ...	.	..	...	...	...
Lottery ...	2.00	0.60	13	8	5.54
Falmouth ...	...	...	...	...	...
Florence Hall ...	1.47	0.50	9	5	...
Holland Pen ...	...	...	...	...	...
Orange Valley ...	...	...	...	...	...
Kent ...	1.35	0.54	9	6	5.12
Gales Valley ...	1.35	0.75	13	5	4.93
Canaan ...	...	...	...	...	...
Content ...	1.35	0.50	14	4	5.22
Bellfield ...	1.34	0.40	13	7	...
Hampden ...	...	...	...	...	...
Moor Park ...	0.88	0.26	13	6	...
Success ...	1.20	0.50	24	7	4.01
Guilsbro ...	...	...	...	...	...
Cinnamon Hill ...	1.24	0.35	9	8	5.16
Rose Hall ...	1.25	0.30	9	10	5.04
Running Gut ...	1.03	0.28	9	8	5.49
Spring ...	1.06	0.35	22	5	...
Montego Bay ...	0.12	0.04	9	3	4.75
Catherine Hall ...	0.20	0.07	13	4	5.61
King Gate ...	...	...	...	...	...
Round Hill ...	...	...	...	...	...
Sandy Bay ...	1.92	1.00	11	3	3.49
Haughton Court .	...	...	...	...	...
Lucea ...	3.31	1.70	22	3	3.95

CENTRAL SUB-DIVISION.	DECEMBER, 1912. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Rio Magno ...	4.15	1.15	20	10	...
Headworks, Rio Cobre ...	1.93	1.30	16	4	2.05
Linstead ...	4.89	1.80	20	11	3.70
Berkshire Hall ...	2.88	1.13	20	10	...
Point Hill ...	8.60	2.06	5	13	5.92
Brown's Hall .	6.90	2.30	24	9	3.01
Worthy Park ...	...	...	..	...	...
Crofts Hill ...	...	...	...	...	...
Chapelton ...	2.69	0.75	15	11	2.47
Mears ...	...	...	...	...	...
Danks Works ...	3.01	2.46	15	6	2.57
Savoy House ...	3.61	1.30	15	9	2.81
Trout Hall ...	...	...	...	...	...
Cave Valley ..	...	...	..	...	...
Means ...	3.23	...	...	...	...
WEST-CENTRAL DIVISION.					
Whitney ...	...	...	...	...	...
Mocho, Clarendon ...	...	...	...	...	...
Baillieston ...	0.65	0.26	24	6	2.44
Brokenhurst ...	2.70	2.10	4	2	3.80
Christiana ...	0.37	0.17	19	3	3.68
Chudleigh ...	1.76	0.57	16	6	...
Shooter's Hill ...	3.89	1.84	16	6	...
Spitzbergen ...	2.42	1.35	16	6	...
Kendal, Manchester ...	4.15	2.27	16	5	2.92
Marshalls Pen ...	2.76	1.31	19	5	3.65
Mandeville ...	1.99	0.63	16	6	3.62
Carlton, Mandeville ...	0.75	0.62	16	6	...
The Hill ...	3.06	1.02	5	4	...
Fairfield, Manchester ...	2.37	1.30	16	8	2.94
Ulster Spring ...	...	...	..	...	...
Albert Town ...	1.17	0.30	13	5	...
Low River ...	...	...	...	...	...
Troy ...	1.32	0.69	19	3	3.58
Windsor Pen, Trel. ...	1.21	0.30	6	7	4.51
Wallingford ...	0.90	0.60	18	5	...
Balaclava Police Station ...	1.17	0.74	18	2	2.42
Siloah ...	1.50	0.75	16	3	...
Santa Cruz ...	2.12	1.46	16	5	2.77
Appleton Estate ...	2.50	1.50	16	4	3.04
Maggotty ...	1.42	0.72	19	4	2.98
Spring Vale ...	2.94	1.30	22	6	6.27
Ipswich, Ry. St. ...	...	...	...	...	...
Springfield, St. Eliz. ...	...	..	...	...	...
Catadupa Rly. Station ...	1.80	0.55	11	5	...
Kempshot ...	0.86	0.26	22	7	5.40
Cambridge ...	2.03	1.39	22	5	...
Hazelymph ...	2.29	1.40	22	5	2.54
New Market ...	1.31	0.69	17	5	...
Kew Park ...	2.65	1.87	11	8	2.67
Montpelier ...	...	..	...	...	...
Knockalva ..	2.00	1.02	22	6	...
Ramble ...	2.95	1.14	11	5	..
Petersville ...	1.98	1.82	24	3	2.72
Darliston ...	1.18	0.24	14	9	3.47
Whithorn ...	2.05	0.80	16	6	2.94
Great Valley, Han. ...	...	...	...	...	...
Brownsville ...	...	...	...	...	...
Fort William ...	...	...	...	...	...
George's Plain ...	...	...	...	...	...
Fontabelle, Westm. ...	...	...	...	...	...
Belleisle ...	...	...	...	...	...
Morgan's Bridge ...	1.73	0.94	22	3	3.28
Glasgow Estate ...	...	...	...	..	...
King's Vale Police St. ...	0.24	0.11	22	3	3.33
Means ...	1.85	...	...	...	...

SOUTHERN DIVISION.	DECEMBER, 1912. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	3.85	1.42	14	14	6.41
East Prospect ...	4.24	1.65	12	19	...
Morant Bay ...	2.06	0.58	13	9	4.52
Easington ...	1.53	0.40	13	9	3.31
Bull Bay ...	0.00	...	...	...	1.75
Bellevue ...	2.58	1.05	14	14	...
Gordon Town ...	0.50	0.50	15	1	3.37
Hope Gardens ...	0.36	...	...	...	...
King's House Gardens ...	0.68	0.34	13	6	1.90
Halfway Tree ...	0.34	0.34	13	1	2.12
Lunatic Asylum ...	0.09	0.05	14	4	2.03
Kingston S. Camp Road ...	0.20	0.11	14	3	...
" Parade Gard. ...	0.28	0.28	14	1	...
" P. W. Office ...	0.08	0.08	14	1	1.78
Plumb Point L. H. ...	0.13	0.06	14	4	1.60
Ballast Ground ...	1.70	1.20	15	2	...
Quarantine Station ...	0.18	0.10	27	2	..
Spanish Town ...	0.70	0.30	14	4	2.08
Hog Hole Pen ...	2.28	0.76	17	8	2.83
Hartlands ...	1.80	0.52	13	5	...
Belmont ...	2.84	1.62	15	5	...
Old Harbour ...	2.05	0.90	24	4	2.71
May Pen ...	1.76	0.63	16	5	2.40
Hillside Estate ...	...	...	...	...	...
Amity Hall ...	0.57	0.30	27	2	...
Money Musk ...	...	...	...	...	...
Dunkley's, Vere ...	2.06	1.80	16	3	1.91
Dry River " ...	2.42	1.89	16	6	...
Caswell Hill " ...	...	...	..	...	...
Denbigh ...	...	...	..	..	...
Toll Gate ...	4.09	1.23	16	6	...
Woodleigh ...	...	...	...	...	...
New Yarmouth ...	...	...	...	...	...
Exeter, Vere ...	0.84	0.50	16	4	...
Rhymesbury ...	2.17	1.38	16	5	2.23
Milk River ...	0.96	0.60	17	4	2.48
Clarendon Pk. Ry. St. ...	4.01	1.30	5	5	...
Victoria Town ...	1.98	0.85	16	4	3.03
Stone's Hope ...	1.29	0.66	16	5	2.85
Newport, Manchester ...	1.99	0.87	5	4	4.11
Great Valley, Man. ...	1.78	1.35	16	5	2.77
Alligator Pond ...	2.21	2.21	16	1	2.70
Lititz ...	0.65	0.37	17	4	...
Long Hill ...	1.62	0.65	24	6	3.15
Bethlehem, St. Eliz. ...	1.71	0.47	24	7	2.44
Torrington ...	0.86	0.40	7	3	2.72
Pedro Plains ...	0.32	0.32	16	1	1.28
Black River ...	0.29	0.21	24	3	2.27
Font Hill ...	0.40	0 40	24	1	2.08
Mount Edgecombe ...	1.90	1.45	24	5	2.44
Bluefields ...	1.86	0.73	12	5	...
Sweet River ...	...	...	...	...	...
Windsor, Sav.-la-mar ...	0.80	0.67	22	3	2.48
Orchard, Sav.-la-mar ...	0.98	0.85	22	3	...
Sav.-la-mar ...	0.83	0.45	22	2	2.36
Retreat ...	2.03	1.50	22	3	2.41
White Hall ...	1.78	1.50	22	4	...
Negril Point L.H ...	3.30	1.50	24	6	2.12
Negril Pol. Sta. ...	...	...	...	...	...
Means ...	1.35	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

—	December.	
	1912.	Average.
	In.	In.
North-Eastern Division ...	7.56	10.28
Northern ...	3.23	5.45
West-Central ...	1.85	3.60
Southern ...	1.35	2.61
The Island ...	3.50	5.48

The heaviest rainfall, 18.70 inches was recorded at Moore Town. No rain fell at Bull Bay in the Southern Division and only 0.08 and 0.09 inches at Kingston and the Lunatic Asylum.

Rainfall at Grand Cayman. October, 1912.	Total Fall.	Greatest fall. Amount.	Greatest fall. Date.	No. of days on which 0.01 or more fell.
East End ...	5.53	2.30	2	13
Bodden Town ...	5.06	1.15	2	12
George Town ...	..	..	..	..

Shocks of Earthquake in December, 1912.

Date.	Mean time. hr.	min.	Intensity.	Notes: where felt, etc.
23rd	1	53 a.m.	I	Kingston, S.E. .003 ins. duration 3 seconds.
23rd	1	53 a.m.	II	Mt. Holstein N.E. .011 ins

Kempshot Observatory : Magnetic Variation (E)

January ...	2°	27′
February ..		26
March ...		26
April ...		28
May ...		30
June ...		30
July ...		28
August ...		32
September ...		26
October ...		30
November ...		27
December ..	2	26
Mean ...	2	28.0

THE RAINFALL OVER THE ISLAND.

(From about 150 "average" Stations.)

1912.	Rainfall Division. N.E.	N.	W.C.	S.	The Island
	in.	in.	in.	in.	in.
January	7.64	4.22	3.39	2.35	4.40
February	4.38	2.16	1.83	1.26	2.34
March	4.00	3.45	7.61	4.44	4.88
April	3.64	1.14	2.71	1.36	2.21
May	3.76	2.86	9.49	2.29	4.60
June	3.12	1.86	3.68	1.06	2.43
July	3.64	3.41	7.72	2.44	4.30
August	6.84	4.22	10.58	3.68	6.38
September	5.83	3.71	10.93	4.44	6.23
October	9.76	6.70	10.68	5.85	8.25
November	41.21	27.30	22.82	15.63	26.74
December	7.56	3.23	1.85	1 35	3.50
Totals	101.38	64.26	93.29	46 15	76.26

Magnetic Variation. The variation of the compass at the Kempshot Observatory in December was 2° 26′ E.

The Weather Office
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

METEOROLOGICAL OBSERVATIONS.—KINGSTON, JAMAICA. MEAN RESULTS OF THE YEAR 1912. ELEVATION 24 FEET.

Month.	Bar.		Temperature.					Extremes for the month.			Dewpoint and humidity.				Rain-fall.	Miles of Wind per diem.	Wind from and miles per hour.						Clouds : In tenths.						Weather conditions.
																	7 a.m.		3 p.m.		11 p.m.		Lower.		Middle.		Upper.		
	7 a.m.	3 p.m.	Mean	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Min.	Range.	7 a.m		3 p.m									7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	
	Ins.	Ins.	°	°	°	°	°	°	°	°	°	°		°		Ins.		Mls.		Mls.		Mls.							
Jany. ..	29.967	29.922	76.7	71.0	81.6	87.5	68.8	18.7	91.0	64.4	26.6	66.1	84	71.0	70	1.40	214.3	NE	6.2	SE	16.0	NE	5.3	2.1	1.8	0.3	1.9	0.1	9.3	Rainfall about 40 per cent. above the average. Unusually brisk sea breeze on many pays. Fresh "Northers" from about the 16th to 18th. Fine on eleven days.
Feb. ..	29.961	29.923	75.9	69.8	81.6	85.6	68.5	17.1	90.8	61.2	29.6	64.7	83	71.5	72	0.74	241.9	NNE	6.8	SE	14.7	ENE	7.6	1.5	3.0	0.7	1.9	0.4	0.3	Rainfall a little above the average. Unusually hrisk wind latter part of month, continuing throughout the night on many occasions. "Northers" on eight days.
March ..	29.983	29.933	77.0	72.5	81.8	86.5	69.5	17.0	88.5	67.1	21.4	66.2	80	70.4	69	0.56	229.4	NE	5.1	SE	17.5	E b N	5.2	1.9	3.5	0.7	5.2	0.3	0.5	Rainfall about one-half the average. Sea hreeze continued till late at night on seven occasions. Thunder storm on 19th and 20th. Fine on four days.
April ..	29.990	29.936	78.9	75.6	83.5	87.7	70.7	17.0	90 5	68.1	22.4	67.9	77	70.2	64	0.51	201.1	NNE	3.7	SE	14.9	NE bE	4.4	1.0	4.2	0.7	2.0	0.4	0.5	Rainfall one-half the average. Sea breeze continued till late at night on 4 occasions. Thunderstorm to north on the 27th. Rain in the neighhourhood on the 5th, 17th, and 28th, Humidity the average. Fine on eight days.
May ..	29.955	29.902	80.3	78.1	84.3	87.9	72.9	15.0	89.9	70.4	19.5	69.3	74	72.4	68	0.27	243.7	NNE	4.3	SE	19.3	ESE	5.8	0.7	4.0	0.8	1.7	0.8	1.0	Rainfall much helow the average. Seabreeze continued till late at night on 19 occasions. Distant thunder to north on 5th and 28th. Fine on eight days.
June ..	29.970	29.926	82.2	79.7	86.3	89.8	75.2	14.6	92.0	72.1	19.9	70.3	73	72.1	63	0.08	312.3	ESE	7.1	SE	25.7	ESE	8.5	1.1	3.0	1.5	1.1	1.8	1.0	Rainfall exceptionally low (smallest on record for June for 40 years.) Seabreeze continued till late at night on 18 occasions. SE squall on 23rd at about 3.15 p.m. 42 miles an hour. Thunderstorm on 18th.
July ..	29.970	29.924	82.1	78.4	87.0	90.9	74.0	16.9	93.2	72.7	20.5	68.9	73	72.7	63	0.02	244.3	NNE	4.1	SE	19.2	NE	3.9	0.7	3.5	1.0	1.1	1.0	1.7	Rainfall very difficient. Thunderstorm on five occasions. Seabreeze continued till late on many nights. Fine on eight days.
Aug. ..	29.953	29.903	81.5	77.9	85.3	90.7	74 0	16.7	95.0	70.9	24.1	69.1	74	72.3	65	1.13	248.5	NNE	4.8	SE	18.3	NE	4.5	0.6	3.1	0.7	2.0	2.1	2.2	Rainfall much helow the average. Frequent thunderstorm and distant lightning. "Line squall" on 5th all along south coast. Fine on 4 days.
Sept. ..	29.910	29.858	80.9	77.1	84.2	90.4	73.9	16.5	92.7	71.8	20.9	70.1	79	73.2	70	1.58	176.7	NNE	3.6	SE	13.0	NNE	3.8	0.3	4.8	0.3	1.1	3.2	2.0	Rainfall difficient. Very frequent lightning throughout. Cloudy.
Oct ..	29.866	29.810	79.9	75.5	84.0	88.5	73.6	14.9	92.1	70.8	21.3	70.7	85	73.4	71	1.87	162.1	NNE	5.3	SE	11.1	N b E	4.3	1.7	3.3	0.6	1.5	2.5	2.7	Rainfall about one-quarter the average. Frequent lightning throughout. Squally on 5 days. Low barometer on 27th and 28th owing to small depression to south. Fine on 2 days.
Nov. ..	29.857	29.807	78.1	74.3	81.5	85.9	72.6	13.3	90.5	69.8	20.7	71.0	90	73.4	77	10.68	195.9	ENE	7.5	SE	10.1	E b S	8.4	2.9	5.8	0.8	1.2	1.6	0.9	Heavy rains between 11th and 19th owing to weather disturhance (severe hurricane west of Island on 17th and 18th). Humidity much above the mean. Considerahle southwesterly wind from 15th to 18th. Fine on 3 days.
Dec ..	29.952	29.895	77.3	71.3	82.6	87.3	69.8	17.5	90.1	67.3	22.8	67.3	87	70.9	68	0.08	144.7	N	4.7	SE	10.3	N	4.7	0.9	2.0	0.7	1.7	0.7	0.7	Rainfall much below. Squally on 2nd. Thunderstorm 7 to 8 p.m. 16th. Rain in neighhourhood on 6 days. Fine on 18 days.
Total ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Means ..	29.944	29.895	79.2	75.1	83.6	88.2	71.9	16.3	91.4	68.9	22.5	68.5	80	72.0	68	18.92	217.9	NE by E	5.3	SE	15.8	ENE	5.5	1.3	3.5	0.7	1.9	1.2	1.2	Rainfall about one-half the average. Frequent lightning. Hurricane to west of Island 17th and 18th November.

51.05
JH

No. 413.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

JANUARY, 1913.

The Bar-pressures at all the Stations except the Hill Gardens, are reduced to the standards of Kew, 32 gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standard only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	30.029	29.986	77.3	80.0	81.7	70.1	11.6	84.0	3rd	61.0	4th	23.0
Kingston ..	24	29.999	29.939	70.0	82.9	86.5	68.6	17.9	90.1	6th	66.1	22nd	24.0
Kempshot ..	1.773	..	..	..	..	..	..	..	..	..	..	..	..
Negril Point Light House ..	33	30.009	29.955	72.4	82.1	84.6	69.3	15 3	87.8	1st	64.4	31st	23.4
Castleton Gardens ..	496	..	..	67.	80.5	85.3	55.6	29.7	90.	*6th	50.	*27th	40.
Hope Gardens† ..	668	30.023	29.922	68.2	84.	85.4	65.8	19.6	89.	6th	63.	23rd	16.
Stony Hill Reformatory ..	1,400	..	..	67.6	77.6	80.2	63.0	17.2	84.	12th	60.	24th	24.
Hill Gardens ..	4.900	25.330	25.264	61.4	63.	66.8	54.	12.8	71.	6th	51.	*28th	20.

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: (direction from and miles per hour.)				Amount of Cloud Lower, Middle and Upper.					
		7 a m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	71.7	83	71.6	75	2.81	..	NE	13.6	NE	14.0	1.5	2.4	2.4	1.0	1.9	2.3
Kingston ..	24	64.7	83	69 5	64	0.09	..	N	4.7	SE	12.4	1.0	0.9	1.0	1.6	1.5	1.1
Kempshot ..	1,773	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Negril Point Light House‡ ..	33	66.0	81	70.3	68	0.55	..	E	5.7	SE by S	12.2	2.1	7.1	1.2	1.6	4.6	0.6
Castleton Gardens ..	496	59.8	69	78.3	69	10.03	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	62.5	67	84.2	57	0.59	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Reformatory ..	1,400	65.1	91	74.6	90	0.61	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	58.2	60	89.7	90	7.99	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a m and 3 p m.
‡ Negril Point Light House. Wind 11 p m E.N E.

RAINFALL FOR JANUARY, 1913.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month, according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	JANUARY, 1913. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	5.66	2.47	29	10	5.94
Spring Valley .	...	...	..	...	...
Bath ...	6.17	1.00	30	19	6.26
Boston ...	2.30	1.20	29	3	9.50
Moore Town ...	12.75	...	...	...	18.55
Port Antonio ...	8.54	2.65	29	16	9.10
Fellowship ...	12.07	2.80	30	22	14.16
Windsor, Portland ...	...	...	...	...	...
Johnson River Bridge ...	2.08	0.88	29	23	3.59
Shrewsbury ...	14.32	1.76	29	25	..
Cedar Valley, St. Thos. ...	...	...	.	...	...
Hope Bay ...	10.45	1.45	29	27	...
Moy Hall, St. Thos. ...	3.47	2.60	16	8	3.46
Lennox ...	16.46	2.50	29	23	..
Hill Gardens ...	7.99	...	...	...	7.09
Buff Bay ...	13.28	2.24	29	18	10.22
Vinery ...	14.33	2.05	29	18	...
Windsor Castle, Port. ...	8.53	1.62	9	12	...
Greenvale, Portland ...	20.23	3.76	15	22	..
Mt. Holstein ...	17.76	7.90	15	19	14.03
Irish Town ..	1.69	0.65	17	2	...
Rose Hill ...	4.34	2.56	15	4	...
Hardware Gap ...	4.80	...	..	..	4.95
Stony Hill Reform. ...	1.61	1.17	15	6	3.30
Castleton Gardens ...	10.03	...	...	...	8.67
Lawrence Tavern ...	2.76	1.53	15	4	1.95
Carew Castle ...	2.51	1.16	15	6	2.60
Agualta Vale ...	8.51	1.40	23	16	...
Water Valley ...	9.02	1.57	9	17	7.90
Albany, Ry. Station ..	8.55	1.36	9	19	...
Platfield ...	5.02	1.15	15	12	...
Richmond, St. Mary ..	11.52	2.00	9	14	6.18
Hampstead, St. Mary ...	14.88	2.05	9	20	...
Kendal, St. Mary ...	9.20	1.85	10	12	...
Gayle ...	7.00	1.63	15	15	7.14
Rio Hoe ...	8.30	1.88	15	14	5.47
Unity Valley ...	7.14	1.50	16	14	4.69
Moneague ...	6.95	1.20	15	12	4 18
Claremont ...	9.61	1.70	3	12	6.12
Albion, St. Ann ...	7.69	1.67	15	18	8.15
Averham Park ...	9.68	2.00	15	14	6.88
Means ..	7.63	..	...	...	...

NORTHERN DIVISION.	JANUARY, 1913. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	6.72	1.38	22	18	6.72
Ocho Rios ...	5.31	1.20	16	18	5.42
Bogue, Ocho Rios ...	...	...	...	...	...
Arthurs Seat ...	...	...	...	..	...
Drax Hall ...	4.65	0.70	3	13	4.84
Liberty Hill ...	6.12	1.03	8	11	...
St. Ann's Bay ...	6.23	1.73	3	22	5.01
Seville ...	4.54	0.60	23	19	5.61
Richmond Estate ...	4.31	0.50	3	17	6.37
Llandovery ...	4.60	0.98	23	11	6.62
Southfield, St. Ann ...	...	...	...	...	...
Brown's Town ...	9.12	2.30	9	8	5.41
Hyde Park ...	...	...	...	...	...
Dry Harbour ...	1.95	0.70	9	8	4.69
Chewmagna, St. Ann ...	2.30	1.50	15	6	2.70
Home Castle ...	4.90	1.35	9	8	5.39
Richmond Pen ...	...	...	..	...	...
Mahogany Hall ...	...	...	...	...	...
Barnstaple ...	...	...	...	...	...
Brampton Bryan ...	3.98	1.06	9	12	4.12
Bryan Castle ...	2.95	1.30	9	7	4.66
Braco ...	2.13	1.20	9	6	4.17
Arcadia ...	5.07	1.75	8	12	4.38
Lancaster ...	1.88	0.75	8	6	4.59
Harmony Hall ...	2.56	0.95	6	9	3.97
Vale Royal ...	6.71	2.18	17	9	4.94
Colchis Pen ...	...	...	..	...	...
Swanswick ...	5.57	1.20	17	11	...
Hyde ...	...	...	...	...	...
Georgia ...	...	..	...	...	...
Long Pond ...	7.08	1.83	17	11	...
Hyde Hall ...	3.95	1.55	8	12	..
Steelfield ...	6.07	2.30	17	11	...
Etingdon ...	3.10	1.00	17	10	...
Oxford ...	.	...	...	...	...
Cambridge ...	...	..	...	...	...
Lottery ...	3.30	1.20	17	9	3.78
Falmouth ...	...	...	...	...	...
Florence Hall ...	1.82	0.28	9	8	...
Holland Pen ...	...	...	...	...	...
Orange Valley ...	...	...	...	...	:
Kent ...	1.71	0.60	17	8	...
Gales Valley ...	3.02	1.00	7	7	3.35
Canaan ...	...	...	...	...	...
Content ...	2.70	1.40	17	8	...
Bellfield ...	2.70	0.60	17	9	...
Hampden ...	..	...	...	...	...
Moor Park ...	3.12	0.60	20	8	...
Success ...	1.35	0.45	9	9	3.84
Guilsbro ...	...	...	...	...	...
Cinnamon Hill ...	1.57	0.44	9	9	3.51
Rose Hall ...	2.94	1.00	19	10	3.38
Running Gut ...	2.08	1.20	19	9	3.54
Spring ...	1.77	0.94	19	7	...
Montego Bay ...	2.03	0.53	11	8	2.92
Catherine Hall ...	1.75	0.56	11	5	3.51
King Gate ...	...	...	...	...	...
Round Hill ...	...	...	...	...	...
Sandy Bay ...	1.43	0.80	30	5	3.78
Haughton Court ...	...	...	...	...	...
Lucea ...	3.47	0.96	30	11	3.07

CENTRAL SUB-DIVISION.	JANUARY, 1913. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Rio Magno ...	7.76	1.38	10	15	...
Headworks, Rio Cobre ...	1.65	0.55	15	5	1.84
Linstead ...	1.40	0.50	16	5	2.15
Berkshire Hall ...	5.33	1.26	16	12	...
Point Hill ...	3.32	0.85	2	13	2.74
Brown's Hall .	3.49	1.66	2	6	1.80
Worthy Park ...	1.77	0.61	14	7	2.04
Crofts Hill ...	...	...	...	...	...
Chapelton ...	1.20	0.44	21	5	2.24
Mears ...	...	...	...	...	...
Danks Works ...	1.79	0.51	15	7	1.89
Savoy House ...	1.76	0.86	21	10	2.29
Trout Hall ...	1.55	0.67	2	9	...
Cave Valley ..	2.50	0.45	15	...	2.26
Greenock ...	2.46	0.50	15	...	...
Means ...	3.29	...	...	...	...
WEST-CENTRAL DIVISION.					
Whitney ...	2.35	0.55	21	7	...
Mocho, Clarendon ...	2.00	0.80	18	4	...
Baillieston ...	1.05	0.20	7	12	2.79
Brokenhurst ...	1.46	0.40	15	5	3.12
Christiana ...	...	...	...	...	...
Chudleigh ...	1.10	0.21	23	7	...
Shooter's Hill ...	1.60	0.53	2	8	...
Spitzbergen ...	1.30	0.37	2	11	...
Kendal, Manchester ...	1.73	0.63	2	7	2.39
Marshalls Pen ...	2.09	0.83	15	5	2.85
Mandeville ...	1.68	0.65	1	8	3.04
Carlton, Mandeville ...	1.66	0.65	2	11	...
The Hill ...	1.19	0.68	15	5	...
Fairfield, Manchester ...	1.36	0.73	15	8	2.61
Ulster Spring ...	...	...	..	...	...
Albert Town ...	2.34	0.90	15	7	...
Low River ...	...	...	...	...	...
Troy ...	1.32	0.58	20	4	2.25
Windsor Pen, Trel. ...	3.52	1.42	2	9	3.13
Wallingford ...	2.06	0.65	21	7	...
Balaclava Police Station ...	2.27	1.73	21	6	1.71
Siloah ...	2.85	1.40	18	6	...
Santa Cruz ...	0.61	0.61	12	1	2.85
Appleton Estate ...	2.76	0.83	20	8	2.59
Maggotty ...	4.38	1.75	21	7	2.72
Butlers ...	3.05	0.90	21	9	...
Spring Vale ...	...	...	...	...	...
Y.S. ...	3.87	2.08	21	11	...
Springfield, St. Eliz. ...	3.85	1.00	21	6	...
Catadupa Rly. Station ...	1.93	0.57	14	6	...
Kempshot ...	2.35	0.40	30	11	3.98
Cambridge ...	2.47	1.37	3	7	...
Hazelymph ...	2.48	0.98	26	3	2.32
New Market ...	2.67	0.58	19	5	...
Kew Park ...	1.72	0.37	2	12	2.32
Montpelier ...	...	..	...	...	...
Knockalva ..	0.94	0.30	30	6	..
Ramble ...	1.75	0.39	26	6	...
Petersville ...	2.18	0.68	8	11	2.25
Darliston ...	4.41	0.98	18	12	2.93
Whithorn ...	2.19	0.60	23	11	1.97
Great Valley, Han. ...	...	...	...	...	...
Brownsville ...	...	...	..	...	...
Fort William ...	...	...	...	...	...
George's Plain ...	...	...	...	...	...
Fontabelle, Westm. ...	...	...	...	...	...
Belleisle ...	2.09	1.61	18	4	1.80
Morgan's Bridge ...	2.19	0.60	23	11	1.82
Glasgow Estate ...	...	...	...	..	...
King's Vale Police St. ...	1.40	0.80	26	6	3.26
Means ...	2.15	...	...	...	...

SOUTHERN DIVISION.	JANUARY, 1913. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	2.81	1.11	30	15	4.30
East Prospect ...	3.53	1.20	29	20	...
Morant Bay ...	2.76	0.57	29	14	2.70
Easington ...	0.63	0.24	29	5	1.64
Bull Bay ...	...	...	...	...	...
Bellevue ...	1.55	0.71	15	7	..
Gordon Town ...	1.14	0.40	8	5	1.08
Hope Gardens ...	...	...	...	...	...
King's House Gardens ...	0.82	0.48	18	5	1.22
Halfway Tree ...	0.88	0.59	14	3	1.12
Lunatic Asylum ...	0.14	0.12	15	2	0.72
Kingston S. Camp Road ...	0.14	0.08	30	3	...
" Parade Gard. ...	...	...	...	...	...
" P. W. Office ...	0.09	0.04	15	3	1.02
Plumb Point L. H. ...	0.11	0.08	29	3	0.80
Ballast Ground ...	1.09	0.09	30	1	...
Quarantine Station ...	0.30	0.25	17	2	..
Spanish Town ...	0.25	0.25	15	1	1.52
Hog Hole Pen ...	0.85	0.54	21	2	1.71
Hartlands ...	0.00	...	...	...	...
Belmont ...	3.29	1.79	2	9	...
Old Harbour ...	2.65	2.20	15	3	2.07
May Pen ...	...	...	...	...	...
Hillside Estate ...	...	...	...	...	...
Amity Hall ...	...	...	...	..	...
Money Musk ...	...	...	...	...	...
Dunkley's, Vere ...	2.46	0.92	3	7	1.33
Dry River " ...	0.85	0.60	15	4	...
Caswell Hill " ...	...	...	..	...	...
Denbigh ...	0.00	...	..	..	1.59
Toll Gate ...	...	...	...	...	...
Woodleigh ...	0.00	...	...	...	...
New Yarmouth ...	1.25	0.65	3	3	1.20
Exeter, Vere ...	0.55	0.15	15	7	...
Rhymesbury ...	0.69	0.23	12	9	1.01
Milk River ...	...	..	...	...	...
Clarendon Pk. Ry. St. ...	2.03	0.85	15	6	...
Victoria Town ...	1.80	1.40	15	2	1.82
Stone's Hope ...	1.16	0.43	2	5	2.68
Newport, Manchester ...	1.69	0.93	15	5	2.66
Great Valley, Man. ...	1.49	0.59	15	6	2.49
Alligator Pond ...	0.89	0.55	15	2	1.41
Lititz ...	1.28	1.10	15	4	...
Long Hill ...	1.14	0.65	24	6	2.41
Bethlehem, St. Eliz. ...	1.30	0.35	15	7	2.52
Torrington ...	0.80	0.30	14	3	2.31
Pedro Plains ...	2.65	1.02	15	7	2.04
Black River ...	3.19	1.26	9	8	1.63
Font Hill ...	2.10	0.09	4	5	1.88
Mount Edgecombe ...	3.21	1.40	8	11	2.04
Bluefields ...	2.89	0.72	14	7	...
Sweet River ...	2.20	1.14	7	8	1.82
Windsor, Sav.-la-mar ...	2.84	0.63	2	10	1.83
Orchard, Sav.-la-mar ...	3.47	0.94	21	9	...
Sav.-la-mar ...	1.14	0.31	7	7	1.62
Retreat ...	2.84	1.92	2	7	1.57
White Hall ...	1.83	1.10	18	6	...
Negril Point L.H. ...	0.55	0.15	18	7	1.34
Negril Pol. Sta. ...	...	...	...	...	...
Means ...	1.47	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

—	January. 1913.	January. Average.
	In.	In.
North-Eastern Division ...	7.63	7.15
Northern ...	3.29	3.77
West-Central ...	2.15	2.85
Southern ...	1.47	1.81
The Island ...	3.65	3.89

The heaviest rainfall, 20.23 inches was recorded at Greenvale, Portland. Many places in the Southern Division had no rain. At Kingston 0.09 inch fell.

Rainfall at Grand Cayman. December, 1912.	Total Fall.	Greatest fall. Amount.	Greatest fall. Date.	No. of days on which 0.01 or more fell.
East End ...	3.35	2.50	31	9
Bodden Town ...	0.29	0.19	14	2
George Town ...	..	..	.	..

Shocks of Earthquake in January, 1913.

Date.	Mean time.	Intensity.	Notes: where felt, etc.
	hr. min.		
	No earthquakes this month.		

CORRIGENDUM.

Weather Report No. 412, Dec. 1912 p. 4 Rainfall at Grand Cayman; for October read November. p. 2. Rainfall St. Ann's Bay; for 86.64 read 6.64.

p. 4, For "The heaviest rainfall 18.70 inches was recorded at Moore Town" read "The heaviest rainfall 22.02 inches was recorded at Mount Holstein.

The Weather Offic
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

NEGRIL POINT LIGHT-HOUSE MEAN RESULTS FOR THE YEAR 1912. ELEVATION 33 FEET.

Month	Bar.		Temperature.						Extremes for the month.			Dewpoint and humidity.				Rain-fall.	Miles of Wind per diem.	Wind from and miles per hour.						Clouds : In tenths.						Weather conditions.
																								Lower.		Middle.		Upper.		
	7 a.m.	3 p.m.	Mean	7 a.m.	3 p.m.	Max.	Min	Range.	Max.	Min.	Range.	7 a m		3 p.m				7 a.m.		3 p.m.		11 p.m.		7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	
	Ins.	Ins.	°	°	°	°	°	°	°	°	°	°		°		Ins.		Mls.		Mls.		Mls.								
Jany. ..	29.985	29 935	76.2	71.9	81.6	84.6	68.6	16.0	88.4	65.0	23.4	66.0	82	68.6	65	2.53	251	NE	8.8	Var.	14.5	ENE	8.3	1.1	1.4	1.9	4.1	0.4	0.1	Fine 13, cloudy 5, overcast 6, rain on 7 days, norther on 31st brisk southeasterly winds on 29 and 30.
Feb. ..	.981	.935	74.5	70.9	79.7	82.2	67.3	14.9	86.7	60.8	25.9	64.2	80	67.0	65	2.18	284	NE by E	8.8	E NE	15.6	ENE	11.1	2.9	3.0	0.6	3.3	1.1	0.0	Fine 7, cloudy 10, overcast 3 and rain on 9 days.
March ..	29.987	.946	75.6	72.4	79.7	84.2	68.2	16.0	88.5	65.4	23.1	66.9	83	69.9	72	6.60	185	EbyN	6.8	SSE	10.3	E b N	6.0	1.6	5.5	1.5	3.2	0.2	0.0	Fine 2, cloudy 4, overcast 4, rain on 21 days. Hail on 20 at 1.49 p.m. L on 20 and 21, T or L on a few days.
April ..	30.004	.943	78.3	76.6	83.0	85.4	70.1	15.3	87 4	67.5	19.9	69.1	78	70.2	66	1.49	185	ENE	6.2	S	10.4	E	6.8	0.7	2.7	0.8	5.6	0.8	0.0	Fine 2, cloudy 14, overcast 8, rain on 6 days T L on 27, L on a few days.
May ..	29.958	.918	79.2	79.3	81.6	85.9	72.0	13.9	87.7	69.9	17.8	71.7	78	73.5	77	8.12	188	ENE	5.5	SE	9.7	E	5.7	0.1	7.4	1.7	2.1	2.3	0.0	Cloudy 3, overcast 11, rain on 17 days, T L on on 4, 17, and 31, T or L on many days.
June ..	.970	.937	80.6	79.5	83.9	87.4	73.4	14.0	90.5	69.9	20.9	70.8	74	73.1	70	1.84	248	EbN	7.9	SE byE	14.6	E	7.2	0.3	2.6	1.6	5.4	3.9	1.3	Fine 1, cloudy 2, overcast 16, rain on 11 days, T L on 19, 28, T or L on many days.
July ..	.973	.948	80.4	79.0	83.8	88.6	72.1	16.5	91.3	69.3	22.0	70.7	74	72.7	70	5.16	172	ENE	6.8	SE byE	10.2	ENE	6.6	0.6	4.4	0.6	4.3	4.2	0.3	Fine 1, cloudy 10, overcast 9, rain on 12 days, T L on 3, 15, 16, 18, 25 and 28 T or L on many days.
Aug. ..	.959	.926	80.0	78.1	83.4	88.2	72 2	16.0	90 7	69.6	21.1	70.6	78	72.8	70	4.46	182	ENE	7.4	ESE	9.2	ENE	6.6	0.5	4.2	0.3	4.4	4.7	0.5	Cloudy 6, overcast 9, rain on 16 days, T L 11, 17, 18, 21, 25, and 30, T or L on many days. Line squall on 5 from SE at 2 p.m. damage done to cultivation, wind greatest velocity 60 m per hour.
Sept. ..	.915	.876	80.0	77.9	83.5	88.2	72.5	15.7	91.3	68.6	22.7	72.0	82	72.9	71	7.14	167	ENE	6.4	NN E	10.0	ENE	5.3	1.1	4.4	0.7	5.0	4.1	0.0	Cloudy 5, overcast 10, rain 15 days. Frequent T L, T L during month.
Oct. ..	.871	.824	79.8	77.4	84.0	87.4	72.3	15.1	92.9	70.0	22.9	71.9	83	72.8	69	4.91	171	ENE	6.5	ESE	8.8	EN E	6.1	2.0	4.2	0.7	3.0	3.0	0.8	Fine 1, cloudy 10, overcast 7, rain on 13 days, T L on 10. 11, and 21, T or L on many days.
Nov. ..	.820	.800	78.6	76.9	81.6	84.7	73.3	11.4	88.6	70.8	17.8	72.5	86	73.7	77	28.29	311	NE	9.2	NE	13.8	NEbE	15.3	3.3	5.3	2.6	2.6	1.6	0.9	Cloudy 3, overcast 5, rain on 22 days. Bar. depression from 13 which terminated in a hurricane on 18, T L on 4, 8, 26, 27 T or L on many days.
Dec. ..	29.969	29.913	78.3	75.0	83.0	85.9	71.4	14.5	89.3	65.9	23.4	68.9	81	72.2	70	3.30	..	NEbE	5.5	Var.	10.8	ENE	..	1.0	1.3	0.9	4.0	0.6	0.4	Fine 12 days, cloudy 11, overcast 2, rain on 6 days.
Total ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	76.02	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Means ..	29.949	29.908	78.5	76.2	82.4	86.0	71.1	14.9	89.4	67.7	21.7	69.6	80	71.6	70	..	213	ENE	7.2	ESE	11.5	ENE	7.7	1.3	3.9	1.2	3.9	2.2	0.4	

MAXWELL HALL, Govt. Meteorologist.

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MAY 1913

No. 414.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

FEBRUARY, 1913.

The Bar-pressures at all the Stations except the Hill Gardens, are reduced to the standards of Kew, 32 gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standard only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	30.029	29.992	75.0	79.4	81.6	71.4	10.2	82.5	*16th	64.	22nd	18.5
Kingston ..	24	30.005	29.958	69.5	81.8	86.0	67.2	18.8	89.3	6th	61.1	14th	28 2
Kempshot ..	1,773	..	..	..	..	..	..	..	..	..	..	..	..
Negril Point Light House ..	33	30.015	29.956	72.0	81.8	84.4	67.4	17.0	86 8	9th	62.2	6th	24.6
Castleton Gardens ..	496	..	..	63.	79.	87.	51.	26.	94.	24th	46.	13th	48
Hope Gardens† ..	668	30.022	29.919	67.	82.	86.	66.	20.	88.	9th	64.	*1st	24.
Stony Hill Reformatory ..	1,400	..	..	66.3	78.2	81.8	61.8	26.0	89.	*29th	59.	*15th	30.
Hill Gardens ..	4,900	25.317	25.275	59.	62.	66.	52.	14.	70.	*27th	49.	*12th	21.

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: (direction from and miles per hour.)				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	70.0	84	72.3	80	1.16	188	E	11.2	E	10.2	1.0	2.0	2.2	1.0	1.7	2.0
Kingston ..	24	63.3	81	68 8	65	0.06	..	N by E	4 5	SE	13.3	2.0	1.1	0.1	4.9	1.6	0 5
Kempshot ..	1,773	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Negril Point Light House‡ ..	33	66.0	81	71.9	72	0.60	..	E S E	6.5	S S E	12.8	1.4	0.5	0.4	3.6	2.7	0.7
Castleton Gardens ..	496	61.2	92	68.9	72	0.07	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	59.8	78	65.3	56	0.49	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Reformatory ..	1,400	62.9	88	71.3	79	0.34	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	55.2	86	58.3	86	0.94	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m and 3 p.m
‡ Negril Point Light House. Wind 11 p.m E S E

RAINFALL FOR FEBRUARY, 1913.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month, according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

North-Eastern Division.	February, 1913.				
	Total Fall.	Greatest fall in 24 hours. Amount	Greatest fall in 24 hours. Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	2.94	1.28	20	6	6.10
Spring Valley ...	...	...	..	...	...
Bath ...	2.98	1.50	16	18	4.86
Boston ...	1.40	0.50	7	4	6.14
Moore Town ...	6.84	...	...	...	14.18
Port Antonio ...	1.47	1.00	17	3	6.19
Fellowship ...	3.76	1.07	17	14	11.70
Windsor, Portland ...	3.85	1.00	16	7	...
Johnson River Bridge ...	1.29	0.61	16	12	2.24
Shrewsbury ...	2.67	8.85	26	11	..
Cedar Valley, St. Thos. ...	1.29	0.40	23	7	2.76
Hope Bay ...	..	...	...	...	...
Moy Hall, St. Thos. ...	0.87	0.30	21	7	2.45
Lennox ...	2.65	1.50	26	6	..
Hill Gardens ...	...	...	...	...	...
Buff Bay ...	2.36	1.04	16	5	7.74
Vinery ...	2.77	1.08	26	5	...
Windsor Castle, Port. ...	2.70	2.44	16	5	...
Greenvale, Portland ...	2.16	0.73	26	10	..
Mt. Holstein ...	0.60	0.22	26	9	7.46
Irish Town ...	0.70	0.40	16	2	...
Rose Hill ...	0.80	0.80	23	1	...
Hardware Gap ...	0.80	...	..	...	3.45
Stony Hill Reform. ...	0.34	0.16	24	3	2.22
Castleton Gardens ...	...	...	...	...	...
Lawrence Tavern ...	0.40	0.40	22	1	2.36
Carew Castle ...	...	...	...	...	...
Agualta Vale ...	3.84	1.85	19	7	...
Water Valley ...	1.88	0.82	16	7	5.73
Albany, Ry. Station ..	..	...	...	.	...
Platfield ...	0.76	0.38	9	4	...
Richmond, St. Mary ..	1.42	0.56	26	8	5.31
Hampstead, St. Mary ...	1.97	1.00	5	7	...
Kendal, St. Mary ...	...	...	...	...	...
Gayle ...	1.25	0.45	9	5	5.41
Rio Hoe ...	8.88	0.45	25	5	4.05
Unity Valley ...	0.90	0.22	23	7	3.60
Moneague ...	0.68	0.25	8	4	4.08
Claremont ...	0.37	0.37	1	1	4.58
Albion, St. Ann ...	0.61	0.25	8	4	3.59
Averham Park ...	0.63	0.53	9	3	4.50
Means ..	1.56	..	...	...	...

Northern Division.	February, 1913.				
	Total fall.	Greatest fall in 24 hours. Amount	Greatest fall in 24 hours. Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	2.82	0.71	26	11	5.95
Ocho Rios ...	1.50	0.35	13	7	3.85
Bogue, Ocho Rios ...	...	...	...	...	...
Arthurs Seat ...	...	...	...	..	...
Drax Hall ...	1.45	0.50	2	6	4.47
Liberty Hill ...	1.71	0.68	8	4	...
St. Ann's Bay ...	3.51	2.27	8	7	4.88
Seville ...	1.15	0.50	2	4	4.29
Richmond Estate ...	...	...	...	...	...
Llandovery ...	2.11	0.61	10	6	4.57
Southfield, St. Ann ...	0.35	0.35	16	1	7.06
Brown's Town ...	...	...	...	...	...
Hyde Park ...	...	...	...	...	...
Dry Harbour ...	0.35	0.15	2	3	2.80
Chewmagna, St. Ann ...	0.45	0.40	23	2	3.21
Home Castle ...	0.90	0.40	10	4	3.16
Richmond Pen ...	...	...	...	...	...
Mahogany Hall ...	...	...	...	...	...
Barnstaple ...	0.48	0.48	10	1	...
Brampton Bryan ...	0.50	0.30	10	3	1.90
Bryan Castle ...	0.20	0.15	10	2	2.32
Braco ...	0.20	0.10	10	2	1.23
Arcadia ...	0.43	0.16	10	3	2.36
Lancaster ...	0.57	0.25	10	3	2.51
Harmony Hall ...	0.62	0.22	10	4	2.33
Vale Royal ...	0.43	0.16	10	3	2.72
Colchis Pen ...	0.60	0.35	10	2	1.74
Swanswick ...	0.60	0.33	10	3	...
Hyde ...	...	...	...	...	...
Georgia ...	0.74	0.20	10	4	2.56
Long Pond ...	0.30	0.15	10	3	2.74
Hyde Hall ...	0.40	0.20	10	5	2.52
Steelfield ...	0.20	0.10	21	3	2.31
Etingdon ...	0.10	0.10	10	1	2.17
Oxford ...	.	...	...	...	...
Cambridge ...	...	..	...	...	...
Lottery ...	0.35	0.20	2	2	2.01
Falmouth ...	...	...	...	...	...
Florence Hall ...	...	...	...	...	...
Holland Pen ...	0.30	0.30	19	1	2.05
Orange Valley ...	...	...	...	...	...
Kent ...	0.00	...	..	...	2.41
Gales Valley ...	0.35	0.35	10	1	2.05
Canaan ...	...	...	...	...	...
Content ...	0.00	...	...	...	2.26
Bellfield ...	0.00	...	...	...	...
Hampden ...	...	...	...	...	...
Moor Park ...	0.43	0.28	24	3	...
Success ...	0.30	0.30	20	1	2.32
Guilsbro ...	...	...	...	...	...
Cinnamon Hill ...	0.34	0.24	20	2	2.65
Rose Hall ...	1.00	0.65	20	3	2.37
Running Gut ...	0.69	0.47	20	3	2.34
Spring ...	0.50	0.50	20	1	...
Montego Bay ...	...	...	...	...	...
Catherine Hall ...	0.30	0.22	19	4	2.47
King Gate ...	...	...	...	...	...
Round Hill ...	...	...	...	...	...
Sandy Bay ...	...	...	...	...	..
Haughton Court .	...	...	...	...	...
Lucea ...	1.15	0.42	18	6	2.16

Central Sub-Division.	February, 1913. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Rio Magno ...	0.65	0.35	8	4	...
Headworks, Rio Cobre ...	0.22	0.13	23	2	1.63
Linstead ...	0.40	0.20	2	3	1.96
Berkshire Hall ...	0.31	0.14	8	4	...
Point Hill ...	1.05	0.26	16	6	3.85
Brown's Hall .	2.19	0.85	22	...	2.66
Worthy Park ...	0.34	0.19	8	2	2.05
Crofts Hill ...	...	...	...	...	...
Chapelton ...	0.27	0.10	16	3	1.80
Mears ...	...	...	...	...	...
Danks Works ...	1.43	1.19	22	4	1.85
Savoy House ...	1.73	1.45	22	3	1.74
Trout Hall ...	0.34	0.20	22	2	...
Cave Valley ..	0.80	0.30	16	...	2.20
Greenock ...	0.78	0.30	16	...	...
Means ...	0.77	...	...	...	...
West-Central Division.					
Whitney ...	1.15	0.80	22	4	...
Mocho, Clarendon ...	0.50	0.42	22	2	...
Baillieston ...	0.99	0.40	16	5	2.99
Brokenhurst ...	1.10	0.30	23	5	2.67
Christiana ...	...	...	...	...	...
Chudleigh ...	1.55	0.74	16	6	...
Shooter's Hill ...	0.72	0.36	16	4	...
Spitzbergen ...	1.06	0.43	22	4	...
Kendal, Manchester ...	0.64	0.32	16	3	2.59
Marshalls Pen ...	0.81	0.50	24	2	...
Mandeville ...	0.48	0.28	23	5	2.87
Carlton, Mandeville ...	0.50	0.33	23	8	...
The Hill ...	0.56	0.27	22	3	...
Fairfield, Manchester ...	1.65	1.05	23	8	3.11
Ulster Spring ...	...	...	..	...	...
Albert Town ...	0.90	0.65	23	2	...
Low River ...	...	...	...	...	...
Troy ...	2.47	2.00	23	5	2.72
Windsor Pen, Trel. ...	0.29	0.16	9	3	2.36
Wallingford ...	1.25	0.76	17	5	...
Balaclava Police Station ...	0.74	0.60	17	2	2.29
Siloah ...	1.65	1.85	17	4	...
Santa Cruz ...	2.98	1.25	17	6	2.48
Appleton Estate ...	1.52	0.64	20	4	2.75
Maggotty ...	1.50	0.80	20	4	2.70
Butlers ...	1.85	0.68	19	5	...
Spring Vale ...	...	...	...	...	...
Y.S. ...	...	...	...	...	...
Springfield, St. Eliz. ...	1.07	0.86	23	2	...
Catadupa Rly. Station ...	0.93	0.83	18	2	...
Kempshot ...	0.65	0.30	19	5	3.00
Cambridge ...	..	...	...	...	...
Hazelymph ...	0.91	0.30	21	2	1.98
New Market ...	1.42	0.70	15	4	...
The Bog ...	0.68	0.34	16	4	...
Kew Park ...	0.58	0.29	18	4	2.72
Montpelier ...	...	..	...	...	..
Knockalva ..	...	...	...	...	...
Ramble ...	1.47	0.38	23	5	...
Petersville ...	2.38	1.50	21	5	2.91
Darliston ...	1.68	0.50	16	6	3.63
Whithorn ...	2.37	1.50	20	4	3.40
Great Valley, Han. ...	...	...	...	...	...
Brownsville ...	...	...	...	...	...
George's Plain ...	...	...	...	...	...
Fontabelle, Westm. ...	0.65	0.25	8	4	2.62
Belleisle ...	2.31	0.56	15	6	2.40
Morgan's Bridge ...	2.64	0.94	8	6	2.53
Glasgow Estate ...	...	...	...	..	...
King's Vale Police St. ...	0.52	0.30	16	5	2.73
Means ...	1.37	...	...	...	...

Southern Division.	February, 1913. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	1.17	0.52	17	11	2.74
East Prospect ...	1.54	0.40	16	17	...
Morant Bay ...	1.08	0.42	16	9	2.03
Easington ...	0.86	0.42	16	7	1.54
Bull Bay ...	0.05	00.5	16	1	0.53
Bellevue ...	2.18	0.74	22	9	..
Gordon Town ...	0.70	0.40	16	2	1.76
Hope Gardens ...	...	...	...	...	...
King's House Gardens ...	0.29	0.08	16	4	1.55
Halfway Tree ...	0.00	...	...	...	0.88
Lunatic Asylum ...	0.13	0.09	16	3	0.54
Kingston S. Camp Road ...	0.08	0.06	16	2	...
" Parade Gard. ...	...	...	...	...	...
" P. W. Office ..	0.06	...	...	...	0.67
Plumb Point L. H. ...	0.18	0.18	16	1	0.72
Ballast Ground ...	0.00	...	...	...	...
Quarantine Station ...	0.04	0.04	16	1	...
Spanish Town ...	0.14	0.10	16	2	1.34
Hog Hole Pen ...	0.22	0.22	16	1	1.82
Hartlands ...	0.10	0.10	16	1	...
Belmont ...	1.21	0.43	18	9	...
Old Harbour ...	1.30	0.70	16	3	1.81
May Pen ...	0.82	0.35	8	4	1.76
Hillside Estate ...	...	...	...	...	...
Amity Hall ...	...	...	...	..	...
Money Musk ...	...	...	...	...	...
Dunkley's, Vere ...	1.48	0.55	20	5	1.17
Dry River " ...	1.08	0.39	16	5	...
Caswell Hill " ...	...	...	..	...	...
Denbigh ...	0.63	0.63	25	1	1.40
Toll Gate ...	...	...	...	...	...
Woodleigh ...	0.70	0.70	25	1	...
New Yarmouth ...	1.56	0.95	20	5	1.02
Exeter, Vere ...	0.80	0.65	16	3	...
Rhymesbury ...	0.65	0.28	25	7	1.37
Milk River ...	0.48	0.16	20	4	1.64
Clarendon Pk. Ry. St. ...	..	..	...	...	...
Victoria Town ...	0.51	0.26	27	2	1.91
Stone's Hope ...	0.68	0.45	27	2	2.22
Newport, Manchester ...	0.96	0.34	16	5	2.94
Great Valley, Man. ...	0.90	0.34	26	4	2.48
Alligator Pond ...	0.20	0.20	26	1	1.20
Lititz ...	0.20	0.18	16	2	...
Long Hill ...	1.73	0.92	26	6	1.88
Bethlehem, St. Eliz. ...	1.74	0.60	22	8	2.55
Torrington ...	0.68	0.40	22	4	2.52
Pedro Plains ...	0.38	0.13	16	4	1.43
Black River ...	2.56	1.58	17	5	1.78
Font Hill ...	1.45	0.45	26	6	1.38
Mount Edgecombe ...	0.63	0.24	16	4	2.48
Bluefields ...	1.34	1.02	21	3	...
Sweet River ...	1.75	0.90	21	4	2.32
Windsor, Sav.-la-mar ...	1.27	0.36	24	6	2.34
Orchard, Sav.-la-mar ...	1.98	0.86	16	6	...
Sav.-la-mar ...	0.87	0.40	17	5	2.00
Retreat ...	1.42	0.81	16	4	2.36
White Hall ...	0.47	0.29	21	3	...
Negril Point L.H. ...	0.60	0.38	21	3	1.54
Negril Pol. Sta. ...	...	...	...	...	...
Means ...	0.84	...	...	...	...

NOTES.

COMPARATIVE TABLE OF RAINFALL.

(Based upon the "Average" Stations only.)

—	February.	
	1913.	Average.
	In.	In.
North-Eastern Division ...	1.56	5.29
Northern ...	0.77	2.55
West-Central ...	1.37	2.76
Southern ...	0.84	1.67
The Island ...	1.14	3.07

The heaviest rainfall, 6.84 inches was recorded at Moore Town. Several places in the Northern and Southern Division had no rain.

Rainfall at Grand Cayman. January, 1913.	Total Fall.	Greatest fall. Amount.	Greatest fall. Date.	No. of days on which 0.01 or more fell.
East End ...	1.05	0.52	28	5
Bodden Town ...	1.87	1.00	1	7
George Town ...	..	..	.	..

SHOCKS OF EARTHQUAKE IN FEBRUARY, 1913.

Date.	Mean time.	Intensity.	Notes: where felt, etc.
	hr. min.		
	No earthquakes this month.		

MAGNETIC VARIATION.—The variation of the compass at the Kempshot Observatory in February, was 2° 29′ E.

The Weather Office,
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

METEOROLOGICAL OBSERVATIONS. MORANT POINT LIGHT-HOUSE. MEAN RESULTS FOR THE YEAR 1913. ELEVATION 8 FEET.

Month.	Bar. Pressure.		Temperature.					Extremes for the month.			Dewpoint and humidity.				Rain-fall.	Wind from and miles per hour				Clouds : In tenths.					
																7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	7 a.m.	3 p.m.	7 a m	3 p.m.	Max.	Min	Range.	Max.	Min.	Range.	7 a m	3 p.m								Lower	Middle.	Uppper.	Lower.	Middle.	Upper.
	Ins.	Ins.	°	°	°	°	°	°	°	°	°		°		Ins.		Mls.		Mls.					
Jany	29.996	29.953	77.6	80.1	81.6	72.9	8.7	83.5	64.5	19.0	70.6	88	74.7	84	5.65	E	15.7	E	15.9	1.5	2.8	2.5	0.7	2.3	2.3
Feb.	29.980	29.951	75.2	79.5	82.4	71.1	11.3	86.0	64.0	22.0	71.0	87	71.6	73	4.20	SE	12.5	SE	12.3	2.3	2.0	2 0	2.0	1.9	2.0
March	30.022	30.15	77.3	80.3	82.3	69.9	12.4	83.5	63.0	20.5	73.0	87	73.3	78	2.13	SE	8.1	SE	8.0	4.0	3.0	2.0	3.0	3.0	2.0
April	30.021	29.967	77.8	81.6	83.8	69.5	14.1	85 6	61.0	24.6	73.3	86	73.8	78	2.53	SE	10.2	SE	7.6	4.9	2.9	2.4	3.8	2.9	2.4
May	29.937	29.886	80.3	83.5	84.8	77.4	9.4	86.0	68.0	18.0	75.5	80	76.0	78	0.62	SE	8.0	SE	12.7	4.2	2.6	1.9	4.5	3.0	2.4
June	29.988	29.977	81.0	83.4	85.1	77.1	8.0	86.2	74.1	12.1	74.2	79	75.4	77	1.20	SE	10.7	SE	12.0	5.0	2.4	2.2	4.3	2.7	2.3
July	29.999	29.976	81.3	34.4	86.3	76.2	10.1	87.5	68.5	19.0	76.8	86	77.8	81	1.20	SE	8·3	SE	9.5	4.4	3.4	3.3	3.5	3.4	3.9
Aug.	29.981	29.950	81.6	83.8	85.6	75.1	10 5	87.2	68.5	18.7	75.3	88	76.2	85	2.22	E	8.0	E	8.3	4.3	3.0	2.7	4.0	3.0	2.9
Sept.	29.942	29.912	82.9	84.5	86.7	73.6	13.1	88.6	63 0	25.6	72.3	73	75.9	76	2.14	E	9.9	E	10.0	5.2	2.4	2.3	4.9	2.4	1.8
Oct	29.899	29.840	79.4	83.0	86.0	71.9	13.4	88.0	67.0	21.0	74.4	85	84.8	96	6.90	E	8.0	NE	9.0	5.2	2.1	1.6	5.5	2.3	1.8
Nov	29.901	29.845	78.4	81.3	83.6	71.3	12.3	86.5	65.0	21.5	74.7	89	76.1	84	18.65	Vor.	13.7	Var.	14.5	4.5	2.1	1.5	4.6	2.0	2.0
Dec	29.982	29.933	79.0	81.0	82.5	72.0	10.5	83.5	62.0	21.5	72.4	80	72.6	76	3.85	E	13.6	E	12.6	1.0	2.3	2.4	0.5	2.2	2.5
Total	..	..	..	..	..	..	..	..	..	..	..	..	..	..	51.29	..	..	..	..	..	..	..	..	..	..
Means	29.971	29.934	79.3	82.2	84.2	73.0	11.2	86.0	65.7	20.3	73.6	84	75.7	80	..	SE	10.5	SE	11.0	3.9	2.6	2.2	3.4	2.6	24

MAXWELL HALL, Govt. Meteorologist.

1.05
J A
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21 MAY 1913

No. 415.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

MARCH, 1913.

The Bar-pressures at all the Stations. except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standard only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	30.044	30.007	76.7	80.1	82.5	75.8	6.7	85.0	30th	67.0	28th	18.0
Kingston ..	24	30.017	29.958	72.8	82.7	86.5	69.3	17.2	90.2	2nd	66.1	3rd	24 1
Kempshot ..	1.773	..	..	..	..	..	..	..	..	..	..	..	..
Negril Point Light House ..	33	30.029	29.985	72.5	80.7	83.8	67.8	16 0	87.5	23rd	64.9	*21st	22.6
Castleton Gardens ..	496	..	..	64.7	82.2	87.6	62.9	24.7	94.	1st	58.	16th	36.
Hope Gardens† ..	668	30.026	29.965	69.4	83.	86.3	66.3	20.0	92.	2nd	64.	14th	28.
Stony Hill Reformatory ..	1,400	..	..	68.6	80.1	82.6	62.5	20.1	90.	1st	61.	*5th	29.
Hill Gardens ..	4,900	25.325	25.263	60.6	63.4	68.0	53.0	15.0	72.	4th	50.	19th	22.

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: (direction from and miles per hour.)				Amount of Cloud Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	72.5	81	72.4	77	1.70	..	E S E	16.4	E S E	16.5	1.2	2.5	2.3	0.4	1.8	2.1
Kingston ..	24	65.3	77	67 5	60	0.47	264	E	6.2	S E	19.8	2.4	1.1	0.3	3.1	1.9	0.1
Kempshot ..	1.773	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Negril Point Light House‡ ..	33	67.7	85	73.0	77	7.85	..	E S E	5.3	S S E	14.2	1.4	1.5	0.6	2.2	4 6	0.0
Castleton Gardens ..	496	63.2	93	70.3	67	2.38	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	61.3	75	65.5	54	1.52	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Reformatory ..	1,400	61.3	77	66.4	63	1.93	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	58.0	89	58.9	87	2.64	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m and 3 p m
‡ Negril Point Light House. Wind 11 p.m. E. by N.

RAINFALL FOR MARCH, 1913.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month, according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	MARCH, 1913. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	1.68	0.48	16	5	3.26
Ecclesdown ...	5.18	1.30	31	11	...
Spring Valley .	3.52	0.48	16	14	.
Bath ...	3.61	0.53	16	21	4.57
Moore Town ...	2.80	...	...	...	10.97
Port Antonio ...	2.53	1.31	3	4	4.90
Fellowship ...	4.85	0.80	31	19	8.09
Windsor, Portland ...	3.84	1.47	8	9	...
Johnson River Bridge ...	4.10	0.66	16	27	2.59
Shrewsbury ...	3.34	1.34	31	8	..
Cedar Valley, St. Thos. ...	3.36	1.64	18	12	3.30
Hope Bay ...	2.00	0.30	8	15	...
Moy Hall, St. Thos. ...	3.28	1.10	21	9	3.01
Lennox ...	2.50	0.50	24	10	..
Hill Gardens ...	2.64	...	...	...	5.19
Buff Bay ...	1.97	0.42	17	9	5.79
Vinery ...	4.10	1.05	29	6	...
Windsor Castle, Port. ...	3.96	0.82	31	8	...
Greenvale, Portland ...	6.17	1.10	31	8	..
Mt. Holstein ...	3.85	1.09	31	12	9.53
Irish Town ..	1.16	0.90	27	2	...
Rose Hill ...	3.53	2.47	29	4	...
Hardware Gap ...	0.95	0.95	27	1	4.50
Stony Hill Reform. ...	1.93	1.04	29	10	2.99
Castleton Gardens ...	2.58	...	...	...	4.93
Lawrence Tavern ...	2.81	1.43	30	6	2.69
Cedar Valley ..	6.53	2.54	31	9	...
Carew Gastle ...	1.51	0.97	28	5	...
Agualta Vale ...	2.87	1.50	30	10	...
Water Valley ...	0.83	0.50	17	4	5.69
Albany, Ry. Station ..	2.42	0.90	23	9	...
Platfield ...	1.98	1.36	23	7	...
Richmond, St. Mary ..	2.53	0.70	18	10	3.75
Hampstead, St. Mary ...	1.36	0.65	23	4	...
Gayle ...	2.22	1.15	27	7	4.70
Rio Hoe ...	2.56	1.22	31	10	3.64
Unity Valley ...	5.16	1.88	10	10	3.64
Moneague ...	3.63	1.36	31	6	3.03
Claremont ...	6.50	2.42	29	10	4 43
Albion, St. Ann ...	3.63	1.23	13	12	3.61
Averham Park ...	4.46	1.32	29	9	3.81
Means ..	3.13	..	...	...	...

NORTHERN DIVISION.	MARCH, 1913. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	3.22	0.54	3	12	3.19
Ocho Rios ...	1.12	0.30	30	8	3.54
Bogue, Ocho Rios ...	1.95	1.10	23	6	...
Arthurs Seat ...	...	...	...	..	...
Drax Hall ...	4.69	1.95	31	6	3.21
Liberty Hill ...	...	...	...	..	...
St. Ann's Bay ...	2.66	0.63	9	11	2.40
Seville ...	2.67	0.75	9	8	3.07
Richmond Estate ...	4.59	1.98	31	7	2.63
Llandovery ...	3.98	1.67	9	5	2.80
Southfield, St. Ann ...	1.98	0.54	29	8	3.65
Brown's Town ...	3.84	1.16	31	6	2.99
Hyde Park ...	...	...	...	...	...
Dry Harbour ...	1.73	...	...	5	1.56
Chewmagna, St. Ann ...	3.51	1.70	18	9	3.37
Home Castle ...	2.47	0.55	29	9	2.56
Richmond Pen ...	3.05	0.90	31	7	2.42
Mahogany Hall ...	...	...	..	...	...
Barnstaple ...	1.61	0.75	23	5	...
Brampton Bryan ...	2.52	0.86	30	9	1.88
Bryan Castle ...	3.75	1.28	30	9	1.88
Braco ...	3.30	1.65	30	6	1.62
Arcadia ...	3.56	2.12	30	8	1.84
Lancaster ...	3.68	1.55	30	7	1.92
Harmony Hall ...	3.92	2.35	30	8	1.74
Vale Royal ...	2.77	1.38	30	7	2.28
Colchis Pen ...	2.65	0.95	30	5	2.02
Swanswick ...	2.20	1.10	10	6	...
Hyde ...	...	...	...	...	...
Georgia ...	...	...	...	...	...
Long Pond ...	1.82	...	10	7	2.18
Hyde Hall ...	1.49	0.52	10	6	1.99
Steelfield ...	1.27	0.45	8	6	2.17
Etingdon ...	0.88	0.26	10	4	1.77
Oxford ...	.	...	...	...	...
Cambridge ...	...	..	...	...	...
Lottery ...	0.30	0.75	29	7	2.00
Falmouth ...	2.86	0.71	5	9	1.76
Florence Hall ...	1.90	0.53	30	6	...
Holland Pen ...	...	...	...	...	...
Dromilly ...	2.08	0.49	5	9	...
Kent ...	1.95	0.90	29	5	1.80
Gales Valley ...	2.20	0.90	29	5	2.35
Canaan ...	...	...	...	...	...
Content ...	2.45	1.75	29	4	2.17
Bellfield ...	...	...	...	...	...
Hampden ...	...	...	...	...	...
Moor Park ...	1.98	0.70	8	6	...
Success ...	1.57	1.00	7	5	1.92
Guilsbro ...	...	...	...	...	...
Cinnamon Hill ...	1.84	1.06	7	5	1.76
Rose Hall ...	2.72	1.60	7	6	1.59
Running Gut ...	2.30	0.63	7	6	1.59
Spring ...	1.17	0.50	7	4	...
Montego Bay ...	1.26	0.40	9	5	1.58
Catherine Hall ...	1.13	0.41	18	6	1.84
King Gate ...	...	...	...	...	...
Round Hill ...	...	...	...	...	...
Sandy Bay ...	...	...	...	...	..
Haughton Court .	...	...	...	...	...
Lucea ...	1.59	0.61	30	5	2.33

CENTRAL SUB-DIVISION.	MARCH, 1913. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Rio Magno ...	2.85	1.35	23	9	...
Headworks, Rio Cobre ...	2.75	1.28	6	5	2.84
Linstead ...	1.55	0.32	27	7	3.06
Berkshire Hall ...	3.46	1.55	10	8	...
Point Hill ...	4.20	0.80	18	9	5.25
Brown's Hall .	6.04	1.13	8	11	4.49
Worthy Park ...	1.79	0.47	24	10	2.84
Crofts Hill ...	...	...	...	...	...
Chapelton ...	1.88	0.78	26	5	2.70
Mears ...	...	...	...	...	...
Danks Works ...	2.15	0.64	26	9	3.26
Savoy House ...	1.60	0.30	26	12	4.07
Trout Hall ...	5.55	1.86	31	14	...
Cave Valley ..	1.30	0.40	17	...	2.90
Greenock ...	1.10	0.30	17	...	...
Means ...	2.58	...	...	...	...
WEST-CENTRAL DIVISION.					
Whitney ...	3.60	1.60	31	10	...
Mocho, Clarendon ...	2.30	0.60	26	5	...
Baillieston ...	4.76	1.80	31	6	4.54
Brokenhurst ...	2.55	0.70	28	11	2.70
Christiana ...	...	...	...	...	...
Chudleigh ...	2.83	0.68	26	10	...
Shooter's Hill ...	1.99	0.34	26	14	...
Spitzbergen ...	1.98	0.57	31	15	...
Kendal, Manchester ...	1.72	0.38	31	10	3.44
Marshalls Pen ...	1.63	0.50	26	5	3.85
Mandeville ...	2.42	0.52	31	15	4.28
Carlton, Mandeville ...	1.76	0.35	31	16	...
The Hill ...	1.82	0.46	28	12	...
Fairfield, Manchester ...	1.23	0.25	31	13	3.84
Ulster Spring ...	4.94	1.55	31	8	3.40
Albert Town ...	6.16	1.30	18	12	...
Low River ...	3.99	1.32	31	12	...
Troy ...	5.01	1.05	9	9	6.17
Windsor Pen, Trel. ...	2.49	0.60	29	11	3.07
Wallingford ...	4.84	1.78	6	9	...
Balaclava Police Station ...	5.57	1.87	6	9	4.74
Siloah ...	5.13	1.30	30	6	...
Santa Cruz ...	6.14	2.17	27	6	4.26
Appleton Estate ...	6.86	1.00	26	12	5.47
Maggotty ...	8.19	2.00	18	11	5.80
Butlers ...	9.96	1.45	27	13	...
Spring Vale ...	3.85	1.01	5	7	2.92
Y.S. ...	...	...	...	...	...
Garland ...	7.13	...	...	12	...
Mocho, Catadupa ...	5.87	1.75	5	10	...
Springfield, St. Eliz. ...	8.66	1.87	18	5	...
Catadupa Rly. Station ...	6.33	1.56	5	11	..
Kempshot ...	3.65	1.25	5	10	...
Cambridge ...	7.39	1.86	10	11	...
Hazelymph ...	5.61	1.07	13	11	3.64
New Market ...	8.49	1.84	18	12	...
The Bog ...	10.27	2.50	18	17	...
Kew Park ...	7.94	1.34	18	12	4.10
Montpelier ...	...	..	...	...	..
Knockalva .	...	...	...	...	...
Ramble ...	9.37	2.26	18	14	...
Petersville ...	9.26	2.30	30	11	5.18
Darliston ...	12.28	3.46	29	15	6.54
Whithorn ...	9.15	2.00	27	17	5.87
Great Valley, Han. ...	4.93	2.88	18	6	3.79
Brownsville ...	...	...	...	...	...
George's Plain ...	...	...	...	...	...
Fontabelle, Westm. ...	11.15	3.52	18	14	3.94
Belleisle ...	12.90	3.15	19	15	3.38
Morgan's Bridge ...	14.29	3.53	18	16	4.75
Glasgow Estate ...	...	...	...	..	...
King's Vale Police St. ...	7.49	2.67	18	9	4.91
Means ...	6.35	...	...	...	...

SOUTHERN DIVISION.	MARCH, 1913. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	1.70	0.24	18	21	2.11
East Prospect ...	1.75	0.40	17	19	...
Morant Bay ...	2.38	0.39	26	21	1.79
Easington ...	2.01	0.32	16	20	2.94
Bull Bay ...	0.25	0.19	20	2	0.34
Bellevue ...	...	..	...	...	..
Gordon Town ...	0.95	0.95	27	1	1.54
Hope Gardens ...	1.52	...	...	...	1.90
King's House Gardens ...	1.30	0.56	27	8	1.26
Halfway Tree ...	0.60	0.40	27	2	1.06
Lunatic Asylum ...	0.59	0.45	27	3	0.97
Kingston S. Camp Road ...	0.77	0.53	27	3	...
" Parade Gard. ...	...	...	...	...	...
" P. W. Office ..	0.47	0.27	27	3	1.05
Plumb Point L. H. ...	0.49	0.20	20	7	0.91
Ballast Ground ...	1.29	0.60	27	4	...
Quarantine Station ...	0.13	0.11	20	2	...
Spanish Town ...	...	...	...	...	...
Hog Hole Pen ...	...	...	...	...	..
Hartlands ...	1.31	0.83	7	2	...
Belmont ...	6.05	2.40	31	14	...
Old Harbour ...	3.30	1.32	6	4	2.20
May Pen ...	11.76	3.72	26	12	2.01
Hillside Estate ...	...	...	...	...	...
Amity Hall ...	1.71	0.93	6	3	...
Money Musk ...	...	...	...	...	...
Dunkley's, Vere ...	1.77	0.86	31	8	1.49
Dry River " ...	1.39	0.95	31	4	...
Caswell Hill " ...	...	...	..	...	...
Denbigh ...	7.35	2.25	26	5	2.06
Toll Gate ...	...	...	...	..	...
Woodleigh ...	8.50	3.30	26	4	...
New Yarmouth ...	0.92	0.64	31	2	1.26
Exeter, Vere ...	1.50	0.80	30	9	...
Rhymesbury ...	4.42	1.60	17	14	2.11
Milk River ...	2.20	1.00	17	6	1.66
Clarendon Pk. Ry. St. ...	2.02	1.12	31	8	...
Victoria Town ...	3.77	1.74	31	5	2.14
Stone's Hope ...	2.26	0.58	28	8	2.64
Newport, Manchester ...	1.42	0.27	29	11	3.03
Great Valley, Man. ...	2.65	0.49	7	12	2.23
Alligator Pond ...	1.50	0.49	7	5	1.73
Lititz ...	1.54	0.65	7	5	...
Long Hill ...	3.43	1.60	29	9	4.02
Bethlehem, St. Eliz. ...	2.97	1.20	31	10	4.25
Torrington ...	1.79	0.55	17	7	3.47
Pedro Plains ...	1.19	0.35	29	6	2.34
Black River ...	3.88	1.25	27	9	2.59
Font Hill ...	6.50	2.90	29	7	4.09
Mount Edgecombe ...	8.38	1.56	6	15	4.10
Bluefields ...	7.43	1.53	18	12	...
Sweet River ...	6.16	2.00	6	10	3.54
Windsor, Sav.-la-mar ...	8.26	2.35	3	13	2.90
Orchard, Sav.-la-mar ...	11.12	3.40	4	16	...
Sav.-la-mar ...	8.55	2.18	27	16	...
Retreat ...	9.43	4.40	18	7	3.28
White Hall ...	7.86	1.60	17	16	...
Negril Point L.H. ...	7.85	1.74	3	13	2.34
Negril Pol. Sta. ...	...	...	...	...	...
Means ...	3.10	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

——	March. 1913.	March. Average.
	In.	In.
North-Eastern Division ...	3.13	4.61
Northern ...	3.58	2.36
West-Central ...	6.35	4.18
Southern ...	3.10	2.22
The Island ...	3.79	3.34

The heaviest rainfall, 14.29 inches was recorded at Morgan's Bridge; and the smallest 0.13 inch at the Quarantine Station.

Rainfall at Grand Cayman. February, 1913.	Total Fall.	Greatest fall. Amount.	Greatest fall. Date.	No. of days on which 0.01 or more fell.
	In.	In.		
East End ...	0.13	0.07	19	2
Bodden Town ...	0.24	0.24	19	1
George Town ...	..	..	.	..

Shocks of Earthquake in March, 1913.

Date.	Mean time. hr.	Mean time. min.	Intensity.	Notes: where felt, etc.
24th	4	0 a.m.	II	Siloah: very slight shocks were recorded some hours before.

Corrigenda—W.R. No. 414 Feb., 1913, p. 2. Rainfall at Albion, St. Ann, for 8.88 in. read 0.88 in. P. 1, Wind pe diem., for 118 miles at Morant Point L.H., read Kingston.

Magnetic Variation.—The variation of the compass at the Kempshot Observatory in March was 2° 27′ E.

The Weather Office,
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

51.05
JA

No. 417.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

MAY, 1913.

The Bar-pressures at all the Stations except the Hill Gardens, are reduced to the standards of Kew, 32°, gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.977	29.945	77.6	80.1	82.2	72.8	9.4	84.	22*	67.	8	17.
Kingston ..	24	29.950	29.907	74.5	83.7	86.1	70.4	15.7	88.3	22	65.8	6	22.5
Negril Point Light House ..	33	29.960	29.924	77.3	82.3	85.3	70.3	15.0	88.3	14	61.4	6	26.9
Castleton Gardens ..	496	..	..	68.8	79.2	84.2	66.1	22.1	89.	28	63.	28	26.
Hope Gardens† ..	668	29.950	29.889	72.1	81.4	84.7	66.9	17.8	87.	14*	62.	5	25.
Stony Hill Reformatory ..	1,400	..	..	68.2	76.7	79.6	64.2	15.4	82.7	28	63.6	1*	19.1
Hill Gardens ..	4,900	25.285	25.245	62.0	62.8	67.4	55.0	22.4	70.	29*	52.	8	18.

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: (direction from and miles per hour.)				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	71.5	82	68.9	71	4.50	309	ENE	9.9	ENE	12.6	1.5	2.6	2.4	1.3	2.2	2.5
Kingston ..	24	68.6	82	70.3	64	3.05	169	NNE	4.4	SE	12.1	2.4	0.9	1.7	4.2	2.0	1.7
Negril Point Light House‡ ..	33	68.1	73	71.8	71	3.82	194	ESE	7.6	SE	10.7	2.7	0.4	3.5	3.9	4.2	0.7
Castleton Gardens ..	496	67.0	93	70.8	76	12.06	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	65.8	81	71.4	72	5.16	.	.	..	..	..	..	..	..	..	..	..
Stony Hill Reformatory ..	1,400	65.7	91	73.2	89	13.56	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	58.8	89	59.5	86	6.45	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m. E.N.E. 6.1.

RAINFALL FOR MAY, 1913.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month, according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	MAY, 1913. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	10.34	2.61	9	19	14.77
Ecclesdown ...	26.12	4.86	1	22	...
Spring Valley .	12.38	3.03	10	18	.
Bath ...	13.25	1.70	18	22	12.75
Boston ..	6.12	1.35	25	6	16.55
Moore Town ...	40.86	...	...	...	16.96
Port Antonio ...	13.90	2.10	3	20	16.66
Fellowship ...	30.72	8.55	15	23	20.85
Windsor, Portland ...	43.60	12.70	14	14	...
Johnson River Bridge ...	7.11	1.47	26	20	9.52
Shrewsbury ...	30.25	5.97	14	18	..
Cedar Valley, St. Thos. ...	6.40	1.60	25	14	9.33
Hope Bay ...	25.55	10.80	15	17	...
Moy Hall, St. Thos. ...	8.17	1.60	27	17	9.44
Lennox ...	28.35	7.60	14	18	..
Hill Gardens ...	6.45	...	...	...	10.71
Buff Bay ...	17.65	5.50	4	11	8.15
Vinery ...	15.55	4.60	15	11	...
Windsor Castle, Port. ...	14.63	6.75	3	9	..
Greenvale, Portland ...	14.06	3.81	3	10	...
Mt. Holstein ...	10.14	4.86	3	19	8.14
Irish Town ..	6.27	1.90	9	7	...
Rose Hill ...	...	..	...	...	...
Hardware Gap ...	10.00	...	...	...	12.57
Stony Hill Reform. ...	13.56	4.21	9	18	9.73
Castleton Gardens ...	12.06	...	...	...	12.04
Lawrence Tavern ...	11.55	2.75	11	12	9.12
Cedar Valley, St. Andrew	11.07	3.40	9	10	...
Carew Gastle ...	11.72	2.65	11	13	9.23
Agualta Vale ...	10.52	2.32	4	15	...
Water Valley ...	8.19	2.10	4	15	7.23
Albany, Ry. Station ..	8.61	1.98	4	13	...
Platfield ...	8.14	1.85	11	13	...
Richmond, St. Mary ..	8.43	3.00	3	12	7.54
Hampstead, St. Mary ...	14.70	3.07	5	21	...
Kendal, St. Mary ...	5.76	1.24	11	12	...
Gayle ...	7.79	2.00	3	16	8.37
Rio Hoe ...	5.96	1.27	3	13	8.48
Unity Valley ...	7.34	2.43	11	16	9.99
Moneague ...	5.13	1.85	11	12	8.26
Claremont ...	3.65	0.63	9	8	7.34
Albion, St. Ann ...	5.47	1.23	15	14	8.46
Averham Park ...	6.76	2.16	3	13	8.25
Means ...	11.10	...	...	...	

NORTHERN DIVISION.	MAY, 1913. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			
Port Maria ...	11.44	2.93	14	19	6.61
Ocho Rios ...	9.35	4.35	4	12	5.20
Bogue, Ocho Rios ...	8.23	2.07	4	10	...
Arthurs Seat ...	...	...	...	..	...
Drax Hall ...	4.30	0.90	4	11	7.10
Liberty Hill ...	4.80	1.60	3	7	...
St. Ann's Bay ...	4.18	1.35	4	11	5.64
Seville ...	4.23	1.06	4	10	7.18
Richmond Estate ...	3.19	0.65	19	10	7.42
Llandovery ...	3.68	1.34	14	5	7.11
Southfield, St. Ann ...	...	...	..	...	...
Brown's Town ...	7.69	3.46	3	12	7.23
Hyde Park ...	...	...	...	...	...
Dry Harbour ...	...	...	...	...	...
Chewmagna, St. Ann ...	8.52	3.75	10	14	6.70
Home Castle ...	1.40	1.05	4	10	6.13
Richmond Pen ...	...	...	...	...	...
Mahogany Hall ...	...	...	..	...	...
Barnstaple ...	5.90	1.66	5	10	...
Brampton Bryan ...	4.14	0.95	19	8	5.72
Bryan Castle ...	4.34	1.70	19	9	5.49
Braco ...	3.20	1.30	19	9	4.90
Arcadia ...	6.63	2.55	19	10	4.98
Lancaster ...	3.66	1.47	19	9	5.40
Harmony Hall ...	3.43	1.20	19	11	4.88
Vale Royal ...	5.73	1.86	19	11	6.34
Colchis Pen ...	4.91	1.30	10	10	7.15
Swanswick ...	7.15	2.10	19	8	...
Hyde ...	...	...	...	...	...
Georgia ...	...	...	...	...	...
Long Pond ...	4.74	1.48	19	8	...
Hyde Hall ...	5.47	2.35	19	11	...
Steelfield ...	4.01	2.04	19	6	...
Etingdon ...	3.12	2.12	19	5	...
Oxford ...	.	...	...	...	...
Cambridge ...	...	...	...	...	...
Lottery ...	4.15	1.50	19	10	6.35
Falmouth ...	...	...	...	...	...
Florence Hall ...	2.02	0.75	19	6	...
Holland Pen ...	...	...	...	...	...
Dromilly ...	12.98	2.15	17	17	...
Kent ...	3.55	1.80	19	5	...
Gales Valley ...	4.91	1.00	23	9	8.39
Canaan ...	...	...	...	...	...
Content ...	3.50	1.70	19	5	...
Bellfield ...	...	...	...	...	...
Hampden ...	...	...	...	...	...
Moor Park ...	4.94	1.56	19	9	...
Success ...	1.15	0.50	27	6	4.57
Guilsbro ...	...	...	...	...	...
Cinnamon Hill ...	3.24	2.38	27	7	5.28
Rose Hall ...	3.60	2.25	27	7	4.84
Running Gut ...	4.76	3.58	27	7	7.60
Spring ...	5.70	4.13	27	7	...
Montego Bay ...	3.46	1.05	25	9	7.60
Catherine Hall ...	2.70	1.30	25	11	8.69
King Gate ...	...	...	...	...	...
Round Hill ...	3.25	0.75	...	7	...
Sandy Bay ...	...	...	...	...	...
Haughton Court .	7.07	2.16	24	11	...
Lucea ...	9.22	3.17	20	12	8.09
Westfield ...	...	...	...	...	...

CENTRAL SUB-DIVISION.	MAY, 1913. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Rio Magno ...	...	...	...	...	...
Headworks, Rio Cobre ...	6.77	1.80	9	9	7.71
Linstead ...	10.53	1.65	12	13	9.64
Berkshire Hall ...	11.51	1.85	18	14	...
Point Hill ...	10.20	3.13	11	12	12.80
Brown's Hall ...	10.22	3.12	11	12	8.76
Worthy Park ...	8.28	1.75	11	10	8.17
Crofts Hill ..	...	...	...	...	...
Chapelton ...	9.35	2.68	9	11	8.47
Danks Works ...	7.28	2.35	11	10	9.22
Savoy House ...	7.65	2.02	9	14	8.03
Trout Hall ...	8.10	1.86	11	16	...
Cave Valley ..	10.60	2.80	22	20	9.66
Greenock ...	10.84	2.94	22	20	...
Means ...	5.89	...	...	...	...
WEST-CENTRAL DIVISION.					
Whitney ...	10.77	3.90	9	5	...
Mocho, Clarendon ...	6.60	2.30	9	8	...
Baillieston ...	5.75	0.93	18	14	10.41
Brokenhurst ...	...	...	...	...	...
Christiana ...	...	...	...	...	...
Chudleigh ...	10.63	1.80	26	20	...
Shooter's Hill ...	9.70	2.10	26	16	...
Spitzbergen ...	10.51	2.34	26	19	...
Kendal, Manchester ...	10.20	2.29	26	13	10.16
Marshalls Pen ...	11.74	3.15	26	16	10.01
Mandeville ...	11.93	3.76	26	15	11.17
Carlton, Mandeville ...	10.01	2.54	26	19	...
The Hill ...	11.08	1.97	26	15	...
Fairfield, Manchester ...	8.49	1.66	9	19	7.87
Ulster Spring ...	10.83	2.85	10	13	11.61
Freeman's Hall ...	13.36	3.20	10	17	...
Albert Town ...	13.65	2.35	10	18	...
Low River ...	7.51	2.30	10	13	...
Troy ...	10.24	1.33	11	14	17.69
Windsor Pen, Trel. ...	9.41	2.66	19	16	10.96
Wallingford ...	14.33	4.31	10	16	...
Balaclava Police Station ...	9.63	2.00	10	19	14.41
Siloah ...	14.87	3.50	10	14	...
Santa Cruz ...	8.62	2.25	12	12	12·81
Appleton Estate ...	10.44	2.18	10	20	13.02
Maggotty ...	12.99	2.10	10	19	14.85
Butlers ...	16.20	2.45	10	19	...
Spring Vale ...	11.08	2.10	29	14	...
Y.S. ...	...	...	...	...	...
Garland ...	7.43	1.00	21	16	...
Mocho, Catadupa ...	7.27	1.34	10	11	...
Springfield, St. Eliz. ...	9.35	1.33	13	11	...
Catadupa Rly. Station ...	11.38	1.90	22	17	...
Kempshot ...	7.74	1.45	20	14	10.37
Cambridge ...	...	...	...	...	...
Hazelymph ...	9.06	1.52	10	15	12.02
New Market ...	7.59	1.47	4	14	...
The Bog ...	10.57	2.47	18	13	...
Kew Park ...	9.53	1.98	17	18	12.91
Montpelier ...	...	..	...	...	..
Knockalva ..	10.51	2.73	20	15	...
Ramble ...	16.86	4.10	20	21	...
Petersville ...	4.69	0.93	19	16	12.19
Darliston ...	11.70	2.16	18	16	16.91
Whithorn ...	13.70	2.30	20	16	14.88
Water Works ...	8.90	1.45	20	12	...
Great Valley, Han.* ...	10.23	4.20	20	10	14.22
Brownsville ...	...	...	...	...	...
Prospect Park ...	12.84	1.62	19	20	...
Fort William ...	...	...	...	...	...
George's Plain ...	...	...	...	...	...
Fontabelle, Westm. ...	9.26	1.40	17	13	9.36
Belleisle ...	8.47	1.60	17	11	11.51
Morgan's Bridge ...	9.08	2.82	20	12	12.36
Glasgow Estate ...	...	...	...	..	...
King's Vale Police St. ...	15.17	4.48	20	13	9.76
Means ...	9.95	...	...	...	...

* Gauge overflowed on the 20th.

SOUTHERN DIVISION.	MAY, 1913. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	4.50	0.76	16	21	10.76
East Prospect ...	6.07	1.26	26	22	...
Morant Bay ...	6.22	1.16	9	22	...
Easington ...	2.90	0.68	9	14	6.33
Bull Bay ...	0.89	0.30	12	5	4.13
Bellevue ...	...	..	...	...	..
Gordon Town ...	4.20	1.75	9	7	8.23
Hope Gardens ...	5.16	...	...	...	6.38
King's House Gardens ...	7.45	2.55	9	13	7.32
Melrose ...	6.45	2.08	11	7	...
Halfway Tree ...	6.46	3.00	11	6	4.87
Lunatic Asylum ...	2.18	1.12	9	9	3.57
Kingston S. Camp Road ...	3.94	1.20	9	11	...
" Parade Gard. ...	1.64	0.85	...	4	...
" P. W. Office ..	3.05	1.48	9	9	4.63
Plumb Point L. H. ...	2.43	1.01	11	8	4.80
Quarantine Station ...	2.74	1.92	9	5	...
Spanish Town ...	6.53	3.41	9	10	5.77
Hog Hole Pen ...	5.55	2.80	9	6	6.79
Hartlands ...	6.03	3.82	9	7	...
Belmont, Guanaboa Vale	8.00	2.25	9	15	...
Old Harbour ...	2.33	1.28	10	4	5.78
May Pen ...	6.68	2.08	12	7	6.84
Hillside Estate ...	...	...	...	...	...
Amity Hall ...	...	...	...	...	...
Money Musk ...	...	...	..	...	...
Dunkley's, Vere ...	6.47	2.05	26	5	4.50
Dry River " ...	5.85	1.54	9	9	...
Denbigh ...	6.15	2.20	12	6	7.61
Toll Gate ...	...	...	...	..	...
Woodleigh ...	6.50	2.00	12	6	...
New Yarmouth ...	6.47	2.18	26	6	4.86
Exeter, Vere ...	6.49	1.85	9	12	...
Rhymesbury ...	7.09	2.47	26	10	5.89
Milk River ...	6.54	2.00	27	7	5.84
Clarendon Pk. Ry. St. ...	7.25	2.75	9	9	...
Victoria Town ...	6.08	2.26	26	6	9.18
Stone's Hope ...	6.94	1.81	9	9	9.30
Newport, Manchester ...	9.99	2.19	9	19	8.37
Great Valley, Man. ...	7.11	1.85	9	16	6.99
Alligator Pond ...	2.46	1.02	9	7	5.86
Southfield ...	3.44	0.91	18	8	...
Lititz ...	6.16	0.82	9	11	...
Long Hill ...	10.54	2.59	13	13	10.24
Bethlehem, St. Eliz. ...	9.17	2.62	1	13	7.64
Torrington ...	5.74	2.05	1	11	6.76
Pedro Plains ...	2.06	0.77	4	7	4.12
Black River ...	2.72	1.00	17	7	7.42
Font Hill ...	2.30	0.50	19	6	8.84
Mount Edgecombe ...	4.84	1.83	19	16	8.23
Bluefields ...	10.17	3.53	22	12	...
Sweet River ...	9.42	1.05	3	12	9.81
Windsor, Sav.-la-mar ...	6.21	1.17	19	16	9.46
Orchard, Sav.-la-mar ...	7.71	1.66	20	14	...
Sav.-la-mar ...	4.83	1.14	20	13	9.29
Retreat ...	5.47	1.85	16	9	9.09
White Hall ...	5.94	2.67	19	10	...
Negril Point L.H. ...	3.82	0.93	21	9	5.88
Means ...	5.32	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

—	May. 1913.	May. Average.
	In.	In.
North-Eastern Division ...	11.10	10.82
Northern ...	5.89	7.07
West-Central ...	9.95	12.49
Southern ...	5.32	6.94
The Island ...	8.06	9.33

The heaviest rainfall, 43.60 inches, was recorded at Windsor, in the parish of Portland; and the smallest was 0.89 at Bull Bay. As these average rainfalls followed those of April, which were above the average, each division has had its proper share of rain for these two months.

Rainfall at Grand Cayman. April, 1913.	Total Fall.	Greatest fall. Amount.	Greatest fall. Date.	No. of days on which 0.01 or more fell.
	In.	In.		
East End ...	1.85	1.29	13	4
Bodden Town ...	2.42	1.30	14	7
George Town ...	..	..	..	..

Shocks of Earthquake in May, 1913.

Date.	Mean time. hr. min.	Intensity.	Notes: where felt, etc.
None recorded.			

Plumb Point Light House—

Average No. of Miles of wind per diem	198
Greatest on the 23nd	401
Least on the 1st, 4th and 11th	80

The Weather Office,
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

51.05
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JAMAICA

WEATHER REPORT

FOR THE MONTH OF

JUNE, 1913.

The Bar-pressures at all the Stations except the Hill Gardens, are reduced to the standards of Kew, 32°, gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.988	29.968	79.9	82.0	83.9	76.3	7.6	85.0	13*	73.0	25	20.0
Kingston ..	24	29.957	29.923	77.4	84.7	88.4	73.2	15.2	90.7	23	70.8	5	19.9
Negril Point Light House ..	33	29.957	29.941	78.5	83.2	86.0	72.5	13.5	88.4	27	69.8	7	18.6
Castleton Gardens ..	496	..	..	69.1	84.4	88.0	66.8	21.2	93.0	23	65.0	7*	28.0
Hope Gardens† ..	668	29.976	29.917	75.3	85.0	87.8	69.0	18.8	91.0	7	67.0	6*	24.0
Stony Hill Reformatory ..	1,400	..	..	70.7	81.5	83.6	65.2	18.4	88.7	23	63.6	1	25.1
Hill Gardens ..	4,900	25.302	25.279	63.1	64.3	68.7	56.7	12.0	72.0	27	55.0	5	17.0

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: (direction from and miles per hour.)				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	73.8	82	75.3	80	1.77	365	ESE	13	ESE	16	1.4	2.1	2.9	1.6	2.0	2.4
Kingston ..	24	69.2	76	71.0	64	0.48	274	E	6.6	SE	18	1.8	1.8	1.9	2.9	1.0	3.6
Negril Point Light House‡ ..	33	69.5	74	72.3	70	1.34	204	ESE	6.9	SE	11	5.3	0.7	1.8	6.7	3.1	0.0
Castleton Gardens ..	496	67.6	96	71.9	67	0.75	..	..	..	..	..	..	..	..	..	..	
Hope Gardens ..	668	65.8	73	75.4	72	0.95	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Reformatory ..	1,400	66.7	87	70.6	69	0.63	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	60.0	89	61.9	93	2.31	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m. E. 6.4
Morant Point Light house, Max. miles of Wind per diem 470 on 4th.

RAINFALL FOR JUNE, 1913.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month, according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	JUNE, 1913. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	7.95	2.10	30	10	10.20
Ecclesdown ...	14.77	4.80	30	10	...
Spring Valley .	9.18	2.80	30	13	.
Bath ...	8.95	3.30	30	23	13.29
Boston ..	3.00	1.10	3	5	16.35
Moore Town ...	18.56	...	...	...	25.57
Port Antonio ...	13.08	2.90	23	19	17.96
Fellowship ...	15.36	4.32	30	22	22.43
Windsor, Portland ...	18.10	4.48	30	18	...
Johnson River Bridge ...	8.57	1.61	30	24	19.17
Shrewsbury ...	5.23	1.83	30	10	..
Cedar Valley, St. Thos. ...	6.03	2.10	30	6	19.90
Hope Bay ...	8.10	2.85	30	14	...
Moy Hall, St. Thos. ...	3.66	2.00	25	14	13.82
Lennox ...	7.88	3.15	30	10	...
Hill Gardens ...	2.31	...	...	...	8.11
Buff Bay ...	4.50	1.33	30	7	7.50
Vinery ...	2.96	0.93	30	7	...
Windsor Castle, Port. ...	4.32	1.67	30	3	..
Greenvale, Portland ...	0.36	0.21	17	2	...
Mt. Holstein ...	2.06	0.69	30	10	8.16
Irish Town ..	0.00	...	...	...	...
Rose Hill ...	...	..	...	...	...
Hardware Gap ...	2.50	...	...	...	7.86
Stony Hill Reform. ...	0.63	0.32	30	6	7.47
Castleton Gardens ...	0.75	...	...	...	9.93
Lawrence Tavern ...	2.27	0.60	30	6	7.48
Cedar Valley ...	0.51	0.51	30	1	...
Carew Castle ...	4.90	1.60	8	7	10.47
Agualta Vale ...	3.28	1.90	16	6	...
Water Valley ...	2.45	0.90	30	17	6.01
Albany, Ry. Station ..	3.08	0.98	16	7	...
Platfield ...	5.72	2.75	16	7	...
Richmond, St. Mary ..	1.93	0.65	16	6	5.93
Hampstead, St. Mary ...	3.02	1.26	16	4	...
Kendal, St. Mary ...	2.20	0.52	3	6	...
Lucky Hill ...	3.83	2.00	16	7	...
Rio Hoe ...	6.43	1.40	10	12	9.11
Unity Valley ...	5.78	1.35	15	15	8.56
Moneague ...	6.95	2.50	2	17	8.34
Claremont ...	...	...	...	...	...
Albion, St. Ann ...	3.36	...	15	15	6.97
Averham Park ...	4.81	0.87	16	11	6.31
Means ...	5.70	...	...	...	...

NORTHERN DIVISION.	JUNE, 1913. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			
Port Maria ...	5.25	1.06	30	14	5.53
Ocho Rios ...	1.75	0.45	20	8	5.20
Bogue, Ocho Rios ...	3.35	1.05	16	7	...
Arthurs Seat ...	...	...	...	..	...
Drax Hall ...	2.40	0.50	24	9	5.16
Liberty Hill ...	...	...	...	...	...
St. Ann's Bay ...	...	...	...	...	...
Seville ...	4.06	1.75	10	13	4.90
Richmond Estate ...	3.56	2.00	10	10	5.04
Llandovery ...	3.10	1.90	10	7	4.53
Southfield, St. Ann ...	0.69	0.33	1	6	6.13
Runaway Bay ...	1.40	...	...	5	...
Brown's Town ...	1.22	0.32	15	5	4.74
Hyde Park ...	...	...	...	...	...
Dry Harbour ...	...	...	...	...	...
Chewmagna, St. Ann ...	0.92	0.25	19	7	7.92
Home Castle ...	1.40	0.35	16	6	4.48
Richmond Pen ...	...	...	...	...	...
Mahogany Hall ...	...	...	...	...	...
Barnstaple ...	4.58	2.20	16	9	...
Brampton Bryan ...	3.77	1.05	16	6	3.71
Bryan Castle ...	3.72	0.90	3	13	3.63
Braco ...	3.50	0.95	3	10	3.26
Arcadia ...	3.68	1.59	16	9	4.46
Lancaster ...	2.16	1.00	16	10	3.54
Harmony Hall ...	2.36	1.02	16	10	3.03
Vale Royal ...	3.91	1.40	16	7	4.69
Colchis Pen ...	2.68	1.40	16	6	5.11
Swanswick ...	4.58	2.20	16	9	...
Hyde ...	...	...	...	...	...
Georgia ...	...	...	...	...	...
Long Pond ...	2.20	1.38	16	4	5.11
Hyde Hall ...	3.02	1.79	16	7	5.24
Steelfield ...	2.07	1.55	16	3	4.40
Etingdon ...	1.27	1.02	16	3	4.54
Oxford ...	..	...	...	...	...
Cambridge, Trelawny ...	...	...	...	...	...
Lottery ...	2.10	1.05	16	6	4.14
Falmouth ...	...	...	...	...	...
Florence Hall ...	1.86	0.46	9	...	...
Holland Pen ...	...	...	...	..	...
Dromilly ...	...	...	...	...	...
Kent ...	1.70	0.45	15	5	3.73
Gales Valley ...	4.53	1.37	29	7	6.78
Canaan ...	...	...	...	...	...
Content ...	...	...	...	...	...
Bellfield ...	2.98	0.98	1	9	...
Hampden ...	...	...	...	...	...
Moor Park ...	3.47	1.25	9	10	...
Success ...	...	...	...	...	...
Guilsbro ...	...	...	...	...	...
Cinnamon Hill ...	...	...	...	...	...
Rose Hall ...	...	...	...	...	...
Running Gut ...	...	...	...	...	...
Spring ...	...	...	...	...	...
Montego Bay ...	5.18	2.25	7	13	7.19
Catherine Hall ...	...	...	...	...	...
King Gate ...	5.39	1.50	15	13	9.92
Round Hill ...	5.60	0.75	...	11	6.35
Sandy Bay ...	...	...	...	...	...
Haughton Court ...	8.37	1.54	15	14	...
Lucea ...	7.70	2.00	15	10	8.76
Westfield ...	...	...	...	...	...

CENTRAL SUB-DIVISION.	JUNE, 1913. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Rio Magno ...	...	...	...	...	...
Headworks, Rio Cobre ...	0.60	0.60	30	1	6.16
Linstead ...	7.61	2.65	8	12	8.59
Berkshire Hall ...	5.54	2.25	29	18	...
Point Hill ...	3.34	0.71	30	9	11.26
Brown's Hall .	1.52	0.80	30	3	12.60
Carew Castle ...	...	...	...	...	...
Worthy Park ...	4.92	1.19	15	8	7.19
Crofts Hill ...	...	...	...	...	...
Chapelton ...	2.49	1.53	30	4	7.56
Danks Works ...	2.22	0.78	19	7	8.05
Savoy House ...	2.63	1.22	19	9	9.18
Trout Hall ...	1.83	0.73	19	5	...
Cave Valley ..	7.70	2.40	15	20	7.80
Greenock ...	8.05	2.55	15	20	...
Means ...	3.24	...	...	...	...
WEST-CENTRAL DIVISION.					
Whitney ...	2.60	1.05	19	6	...
Mocho, Clarendon ...	2.10	1.30	19	3	...
Baillieston ...	1.88	0.53	19	6	10.06
Brokenhurst ...	...	...	...	...	...
Christiana ...	...	...	...	...	...
Chudleigh ...	1.61	0.52	29	6	...
Shooter's Hill ...	2.20	0.78	19	11	...
Spitzbergen ...	1.51	0.43	19	8	...
Kendal, Manchester ...	2.02	0.77	20	5	10.21
Marshalls Pen ...	2.89	0.95	24	6	8.39
Mandeville ...	3.65	1.01	24	9	10.07
Carlton, Mandeville ...	2.51	0.66	30	6	...
The Hill ...	2.85	0.60	30	7	...
Fairfield, Manchester ...	1.57	0.49	28	9	9.08
Ulster Spring ...	0.40	0.40	15	1	...
Freeman's Hall ...	0.55	0.55	27	1	...
Albert Town ...	0.80	0.40	15	3	...
Low River ...	...	...	...	...	...
Troy ...	0.60	0.60	1	1	7.77
Windsor Pen, Trel. ...	2.41	1.10	15	9	9.45
Wallingford ...	0.0	...	..	..	..
Balaclava Police Station ...	0.0	...	...	...	4.98
Siloah ...	0.40	0.40	9	1	...
Appleton Estate ...	0.35	0.27	9	3	7.20
Maggotty ...	1.02	0.66	10	6	6.35
Butlers ...	9.35	2.45	6	11	...
Deeside ...	10.29	1.99	17	14	...
Spring Vale ...	16.49	4.50	16	12	11.31
Y.S. ...	...	...	...	...	...
Garland ...	7.58	2.68	6	10	...
Mocho, Catadupa ...	5.75	1.55	13	7	...
Springfield, St. Eliz. ...	2.13	1.05	8	6	...
Catadupa Rly. Station ...	10.71	3.40	16	15	...
Kempshot ...	4.20	1.35	29	13	9.29
Cambridge St. James ...	6.59	1.86	15	13	...
Hazelymph ...	6.29	2.05	15	15	9.74
New Market ...	3.24	2.11	8	5	...
The Bog ...	3.09	1.25	9	7	...
Kew Park ...	7.81	2.11	27	14	9.56
Montpelier ...	...	..	...	...	..
Knockalva ..	4.39	1.38	27	14	...
Ramble ...	6.71	1.23	15	13	...
Petersville ...	2.21	0.95	16	9	8.54
Darliston ...	7.08	2.56	15	10	10.38
Whithorn ...	...	...	...	...	...
Water Works ...	3.61	0.65	9	9	...
Great Valley, Han. ...	13.41	3.00	15	12	12.95
Brownsville ...	...	..	...	...	...
Prospect Park ...	5.41	1.33	15	15	...
Fort William ...	...	...	...	...	...
George's Plain ...	...	...	...	...	...
Fontabelle, Westm. ...	4.96	1.34	15	12	11.19
Belleisle ...	3.96	1.30	15	10	10.47
Morgan's Bridge ...	...	...	...	...	...
Glasgow Estate ...	...	...	...	..	..
King's Vale Police St. ...	13.10	2.04	26	14	11.37
Means ...	4.39	...	...	...	...

SOUTHERN DIVISION.	JUNE, 1913. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	1.77	0.46	24	15	7.12
East Prospect ...	6.09	2.20	30	16	...
Morant Bay ...	3.19	0.70	30	14	10.19
Easington ...	2.78	0.73	30	16	10.28
Bull Bay ...	0.96	0.36	30	4	5.41
Bellevue ...	...	...	...	...	..
Gordon Town ...	1.18	0.66	30	3	5.88
Hope Gardens ...	0.95	...	...	...	5.55
King's House Gardens ...	..	...	...	...	...
Melrose ...	0.03	0.03	30	1	...
Halfway Tree ...	1.00	1.00	30	1	4.58
Lunatic Asylum ...	1.54	1.02	30	4	5.90
Parade Gardens ...	...	...	...	...	...
Kingston S. Camp Road ...	1.45	0.87	30	4	..
" P. W. Office ...	1.38	0.90	30	4	4.38
Plumb Point L. H. ...	1.60	1.31	30	4	4.65
Quarantine Station ...	1.27	1.03	30	3	...
Spanish Town ...	0.74	0.70	30	3	5.24
Hog Hole Pen ...	0.71	0.71	30	1	5.81
Hartlands ...	2.13	1.90	30	3	...
Belmont, Guanaboa Vale	0.42	0.16	8	6	...
Old Harbour ...	2.70	2.50	30	3	7.68
May Pen ...	1.73	1.19	30	6	7.66
Hillside Estate ...	...	...	...	...	...
Amity Hall ...	...	...	...	...	...
Money Musk ...	...	...	...	...	...
Dunkley's, Vere ...	3.32	1.51	30	6	11.05
Dry River " ...	3.16	1.50	30	9	...
Denbigh ...	1.30	0.80	30	2	6.01
Woodleigh ...	1.20	1.00	30	2	...
New Yarmouth ...	3.06	1.46	30	6	7.16
Exeter, Vere ...	2.93	1.88	30	8	...
Rhymesbury ...	1.96	1.07	30	8	10.58
Milk River ...	1.95	1.00	23	5	10.55
Clarendon Pk. Ry. St. ...	1.43	0.57	30	5	...
Victoria Town ...	2.44	0.88	30	5	8 63
Stone's Hope ...	2.17	0.97	23	6	10.18
Newport, Manchester ...	3.24	0.98	23	9	10.62
Great Valley, Man. ...	2.22	0.77	30	7	8.10
Alligator Pond ...	1.03	..	...	3	6.00
Southfield ...	...	..	...	...	...
Lititz ...	0.15	0.15	24	1	...
Long Hill ...	...	..	...	...	...
Torrington ...	0.80	0.80	30	1	...
Bethlehem, St. Eliz. ...	0.64	0.35	23	5	5.26
Santa Cruz ...	0.50	0.26	30	2	...
Pedro Plains ...	0.38	0.20	1	3	4.30
Black River ...	0.63	0.19	1	4	4.02
Font Hill ...	0.40	0.20	24	2	6.08
Mount Edgecombe ...	2.35	0.75	15	9	6.82
Bluefields ...	4.49	1.30	16	6	...
Sweet River ...	3.28	1.05	29	6	7.37
Windsor, Sav.-la-mar ...	4.34	0.81	7	16	6.72
Orchard ...	3.86	0.57	7	15	..
Sav.-la-mar ...	...	..	...	...	...
Retreat ...	6.27	3.12	5	8	7.95
White Hall ...	2.05	0.60	6	8	..
Negril Point L.H. ...	1.34	0.28	5	13	6.26
Means ...	1.89	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

—	June. 1913.	June. Average.
	In.	In.
North-Eastern Division ...	5.70	10.75
Northern ...	3.24	5.74
West-Central ...	4.39	9.48
Southern ...	1.89	6.93
The Island ...	3.80	8.22

The heaviest rainfall, 18.56 inches, was recorded at Moore Town in the parish of Portland; and no rain fell at Irish Town, Wallingford and Balaclava.

Rainfall at Grand Cayman. May, 1913.	Total Fall.	Greatest fall. Amount.	Greatest fall. Date.	No. of days on which 0.01 or more fell.
	In.	In.		
East End ...	1.76	0.49	21	7
Bodden Town ...	0.89	0.34	28	4
George Town ...	..	..	..	..
June, 1913.				
East End ...	...	....	...	...
Bodden Town ...	6.49	1.20	21	10
George Town ...	...	...	...	...

Shocks of Earthquake in June, 1913.

Date.	Mean time. hr. min.	Intensity.	Notes: where felt, etc.
	None recorded.		

Plumb Point Light House—

Average No. of Miles of wind per diem	404
Greatest on the 28th	568
Least on the 1st	234

The Weather Office,
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

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JAMAICA

WEATHER REPORT

FOR THE MONTH OF

JULY, 1913.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32°, gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar Pressure		Temperature					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		
Morant Pt. Light House ..	8	30.002	29 997	79.9	82.8	84.7	76.3	8.4	86.0	27	71.0	4	15.0
Kingston ..	24	29.990	29.951	76.4	84.9	89.7	72.3	17.4	92.9	24	68.1	4	24.8
Negril Point Light House ..	33	30.000	29.978	78.7	82.7	86.8	71.9	14 9	89.5	23	67.9	9	21.6
Castleton Gardens ..	496	..	..	68.6	84.8	89.7	66.4	23.3	93.	10*	63.	4*	30
Hope Gardens† ..	668	29.99	29.93	74.4	85.9	89.8	68.9	20.9	94.	11*	65.	3	29.
Stony Hill Indus. School ..	1,400	..	..	70.7	82 2	85.8	65.9	10.9	92.	12	64.	3	28.
Hill Gardens ..	4,900	25.326	25.310	64.	65.	71.	53.	18.	76.	12*	55.	19	21.

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: (direction from and miles per hour.)				Amount of Cloud. Lower, Middle and Upper					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	71.7	76	75.0	77	3.46	316	E	9	E	14	1.2	2.2	2.6	0.2	2.1	2.5
Kingston ..	24	67.9	75	71 7	65	0.92	233	NNE	5	SE	19	1.3	0.8	2.1	2.6	0.8	3 6
Negril Point Light House‡ ..	33	70.8	77	74.1	75	4.55	179	E	8	ESE	9	1.9	1.0	1.7	4.2	5.3	0.0
Castleton Gardens ..	496	65.4	81	71.4	63	5.27	..	..	..	..	..	..	..	..	..	..	
Hope Gardens ..	668	64.9	70	67.9	55	0.69	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	67.6	89	68.6	63	3.35	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	58.4	80	61.4	86	6.23	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m E. by N. 6.9
Morant Point Light house, Max. miles of Wind per diem 424 on 22nd.

RAINFALL FOR JULY, 1913.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month, according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

North-Eastern Division.	July, 1913.				
	Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	3.37	0.62	16	12	6.46
Ecclesdown ...	18.14	6.50	4	14	...
Spring Valley .	5.13	1.14	19	8	.
Bath ...	5.28	1.00	19	19	9.66
Boston ..	1.75	1.00	19	3	7.34
Moore Town ...	10.50	...	...	...	20.23
Port Antonio ...	7.43	3.06	19	14	11.60
Fellowship ...	6.60	1.70	19	19	16.64
Windsor, Portland ...	9.46	2.28	4	15	...
Johnson River Bridge ...	3.08	0.68	19	16	7.71
Shrewsbury ...	3.48	0.80	15	10	..
Cedar Valley, St. Thos. ...	2.36	1.20	18	5	4.85
Hope Bay ...	5.60	1.65	19	17	...
Moy Hall, St. Thos. ...	5.10	1.71	19	9	5.53
Lennox ...	4.78	1.30	15	12	..
Hill Gardens ...	6.23	...	...	...	3.76
Buff Bay ...	3.41	1.24	23	7	7.37
Vinery ...	1.38	0.80	15	4	...
Windsor Castle, Port. ...	1.49	0.85	15	5	..
Greenvale, Portland ...	2.39	1.00	18	6	...
Mt. Holstein ...	3.88	1.99	18	9	3.35
Irish Town ..	3.28	1.44	16	6	...
Rose Hill ...	...	..	...	...	...
Hardware Gap ...	6.03	...	...	...	...
Stony Hill Ind. School ...	3.35	1.15	16	9	5.39
Castleton Gardens ...	5.27	...	...	...	6.16
Lawrence Tavern ...	8.55	3.50	18	7	...
Cedar Valley, Red Hills ...	3.62	1.41	27	7	...
Carew Castle ...	3.26	1.25	20	12	...
Agualta Vale ...	1.84	0.46	15	8	...
Water Valley ...	2.34	0.60	27	7	3.46
Albany, Ry. Station ..	2.38	0.59	27	9	...
Platfield ...	1.85	0.62	3	7	...
Richmond, St. Mary ..	1.06	0.34	18	5	3.68
Hampstead, St. Mary ...	1.28	0.47	26	7	...
Kendal, St. Mary ...	1.90	1.38	3	5	...
Lucky Hill ...	1.71	0.65	4	5	...
Rio Hoe ...	4.03	2.08	3	7	4.29
Unity Valley ...	4.85	1.11	2	8	5.92
Moneague ...	3.45	1.05	28	8	4.73
Claremont ...	2.35	0.58	3	7	3.43
Albion, St. Ann ...	4.23	1.32	3	11	4.24
Averham Park ...	1.81	0.50	28	7	3.38
Means ...	4.17	...	...	...	...

Northern Division.	July, 1913.				
	Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			
Port Maria ...	2.63	0.87	3	9	4.19
Ocho Rios ...	1.68	0.45	29	9	2.34
Bogue, Ocho Rios ...	2.84	0.68	25	7	...
Drax Hall ...	1.77	0.45	19	11	2.96
Liberty Hill ...	...	...	...	...	...
St. Ann's Bay ...	3.26	1.10	1	10	2.96
Seville ...	3.12	1.14	19	11	2.31
Richmond Estate ...	1.86	0.75	19	8	2.24
Llandovery ...	0.85	0.85	19	1	2.03
Southfield, St. Ann ...	...	...	...	...	...
Runaway Bay ...	1.28	0.50	28	4	...
Brown's Town ...	...	...	...	...	...
Hyde Park ...	...	...	...	...	...
Dry Harbour ...	...	...	...	...	...
Chewmagna, St. Ann ...	5.75	1.50	26	9	3.07
Home Castle ...	2.15	1.05	29	4	2.16
Richmond Pen ...	...	...	..	...	...
Mahogany Hall ...	2.41	1.10	29	5	4.35
Barnstaple ...	3.35	1.20	28	6	...
Brampton Bryan ...	1.79	0.72	28	5	2.18
Bryan Castle ...	0.86	0.44	29	6	1.81
Braco ...	0.75	0.35	28	5	1.69
Arcadia ...	0.34	0.19	28	2	2.00
Lancaster ...	0.79	0.35	27	4	1.99
Harmony Hall ...	0.83	0.27	28	8	1.56
Vale Royal ...	0.71	0.37	28	3	2.87
Colchis Pen ...	1.28	0.60	16	4	1.28
Swanswick ...	2.65	1.00	29	7	...
Hyde ...	...	...	...	...	...
Georgia ...	...	...	...	...	...
Long Pond ...	2.71	1.07	23	8	3.05
Hyde Hall ...	4.02	1.55	28	9	2.90
Steelfield ...	1.76	1.08	23	4	2.89
Etingdon ...	1.85	0.63	17	5	1.63
Oxford ...	..	...	...	...	...
Cambridge, Trelawny ...	...	...	...	...	...
Lottery ...	2.20	0.95	23	6	2.33
Falmouth ...	2.34	2.07	28	3	1.64
Florence Hall ...	1.90	1.45	28	3	...
Holland Pen ...	...	...	...	..	...
Kent ...	...	...	...	...	...
Gales Valley ...	1.38	0.60	17	3	4.16
Canaan ...	...	...	...	...	...
Content ...	3.35	0.90	16	8	2.00
Bellfield ...	2.10	0.46	28	8	...
Hampden ...	...	...	...	...	...
Moor Park ...	3.05	0.75	3	6	...
Success ...	...	...	...	...	...
Guilsbro ...	...	...	...	...	...
Cinnamon Hill ...	...	...	...	...	...
Rose Hall ...	...	...	...	...	...
Running Gut ...	...	...	...	...	...
Spring ...	...	...	...	...	...
Montego Bay ...	5.66	2.45	28	6	...
Catherine Hall ...	...	...	...	...	...
King Gate ...	5.77	1.88	28	10	...
Round Hill ...	5.75	1.00	...	12	...
Sandy Bay ...	4.94	2.26	4	9	5.44
Haughton Court ...	6.26	1.65	4	9	...
Lucea ...	...	...	...	...	...
Westfield ...	...	...	...	...	...

CENTRAL SUB-DIVISION.	JULY, 1913. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Rio Magno ...	...	...	...	...	...
Headworks, Rio Cobre ...	2.22	0.90	24	6	3.70
Linstead ...	5.70	0.15	31	10	5.93
Berkshire Hall ...	6.45	1.10	27	14	...
Point Hill ...	6.73	1.76	17	14	6.57
Brown's Hall ...	3.69	0.60	15	11	4.66
Worthy Park ...	4.07	0.80	19	12	4.34
Crofts Hill ...	...	...	...	...	...
Chapelton ...	1.67	0.55	17	5	3.65
Danks Works ...	4.03	1.52	17	12	3.48
Savoy House ...	3.80	1.06	17	12	3.15
Trout Hall ...	5.49	1.48	19	9	...
Cave Valley ..	...	...	...	...	...
Greenock ...	...	...	...	...	...
Means ...	2.63	...	...	...	...
WEST-CENTRAL DIVISION.					
Whitney ...	...	...	...	...	...
Mocho, Clarendon ...	4.70	0.70	1	8	...
Baillieston ...	6.35	1.80	18	11	4.49
Brokenhurst ...	1.97	0.80	27	5	6.00
Christiana ...	...	...	...	...	...
Chudleigh ...	5.60	2.55	17	17	...
Shooter's Hill ...	5.82	1.48	30	15	...
Spitzbergen ...	5.62	1.80	7	17	...
Kendal, Manchester ...	5.39	1.10	30	17	5.45
Marshalls Pen ...	...	...	...	...	...
Mandeville ...	2.65	0.45	2	13	5.91
Carlton, Mandeville ...	2.61	0.80	1	14	...
The Hill ...	2.15	0.47	13	9	...
Fairfield, Manchester ...	2.43	0.73	1	14	3.05
Ulster Spring ...	6.15	1.11	18	11	4.45
Freeman's Hall ...	5.96	1.50	18	9	...
Albert Town ...	5.51	1.46	19	12	...
Low River ...	6.49	3.07	16	9	...
Troy ...	6.21	1.50	30	8	7.11
Windsor Pen, Trel. ...	8.46	1.50	19	16	6.65
Wallingford ...	12.33	4.65	27	12	..
Balaclava Police Station ...	9.81	2.79	18	11	4.71
Siloah ...	10.90	3.10	17	10	...
Appleton Estate ...	5.09	1.90	17	14	7.24
Maggotty ...	9.96	2.50	26	16	8.15
Butlers ...	16.60	2.45	17	17	...
Deeside ...	8.23	1.80	16	13	...
Spring Vale ...	10.92	3.32	28	13	8.33
Y.S. ...	...	...	...	...	...
Garland ...	...	...	...	...	...
Mocho, Catadupa ...	10.71	2.15	19	22	...
Springfield, St. Eliz. ...	8.90	1.71	31	16	...
Catadupa Rly. Station ...	9.23	1.79	8	20	...
Kempshot ...	4.49	1.30	28	16	6.21
Cambridge St. James ...	11.79	3.10	16	20	...
Hazelymph ...	10.13	1.30	19	17	9.18
New Market, Police St. ...	6.94	2.43	28	12	...
The Bog ...	10.29	2.56	28	18	...
Kew Park ...	11.90	1.55	6	20	10·33
Montpelier ...	...	..	...	...	..
Knockalva ..	8.43	1.35	3	22	...
Ramble ...	12.67	1.50	16	21	...
Petersville ...	8.39	1.43	31	13	7.17
Darliston ...	13.13	1.68	31	24	11.87
Whithorn ...	17.96	2.60	26	24	10.73
Water Works ...	18.05	3.75	26	21	...
Great Valley, Han. ...	9.50	2.90	3	10	10.24
Brownsville ...	...	...	...	...	...
Prospect Park ...	14.10	1.94	3	23	...
Fort William ...	...	...	...	...	...
George's Plain ...	...	...	...	...	...
Fontabelle, Westm. ...	13.14	2.41	28	19	9.00
Belleisle ...	11.45	1.68	28	20	9.00
Morgan's Bridge ...	12.88	2.50	3	15	11.16
Glasgow Estate ...	...	...	...	..	..
King's Vale Police St. ...	...	...	...	...	...
Means ...	8.55	...	...	...	...

SOUTHERN DIVISION.	JULY, 1913. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	3.46	1.78	1	13	3.23
East Prospect ...	3.45	0.75	30	19	...
Morant Bay ...	3.16	1.18	26	19	5.80
Easington ...	1.73	0.46	27	8	6.22
Bull Bay ...	...	...	...	...	...
Bellevue ...	...	..	...	...	..
Gordon Town ...	1.90	1.00	13	3	...
Hope Gardens ...	0.69	...	...	...	2.72
King's House Gardens ...	1.23	...	...	...	...
Melrose ...	1.70	1.40	28	2	...
Halfway Tree ...	0.28	0.28	31	1	1.85
Lunatic Asylum ...	0.76	0.35	18	4	1.51
Parade Gardens ...	1.17	0.60	19	4	...
Kingston S. Camp Road ...	1.18	0.61	18	5	..
" P. W. Office ...	0.92	0.51	18	4	1.81
Plumb Point L. H. ...	0.52	0.35	3	4	1.94
Quarantine Station ...	1.20	0.67	18	3	...
Spanish Town ...	1.07	0.89	27	2	2.48
Hog Hole Pen ...	2.06	2.06	28	1	2.67
Hartlands ...	0.42	0.22	3	2	...
Belmont, Guanaboa Vale	5.51	1.13	24	11	...
Old Harbour ...	0.85	0.65	26	2	2.57
May Pen ...	1.21	0.40	2	7	3.72
Hillside Estate ...	...	...	...	...	...
Amity Hall ...	...	...	...	...	...
Money Musk ...	...	...	...	...	...
Dunkley's, Vere ...	0.75	0.75	18	1	2.32
Dry River " ...	1.34	0.90	18	5	...
Denbigh ...	0.00	...	...	...	2.99
Woodleigh ...	0.00	...	...	...	...
New Yarmouth ...	1.86	1.13	18	4	2.42
Exeter, Vere ...	0.60	0.20	25	4	...
Rhymesbury ...	0.46	0.23	1	7	2.28
Milk River ...	2.40	1.20	2	3	2.58
Clarendon Pk. Ry. St. ...	1.43	0.35	2	7	...
Victoria Town ...	0.92	0.33	1	5	2 61
Stone's Hope ...	1.73	0.85	28	5	4.30
Newport, Manchester ...	2.00	0.68	3	6	...
Great Valley, Man. ...	1.52	0.79	28	6	3.27
Alligator Pond ...	2.55	1.20	18	3	2.43
Southfield ...	2.04	1.01	1	6	...
Lititz ...	0.96	0.44	28	4	...
Long Hill ...	...	..	...	...	...
Torrington ...	1.20	0.60	28	4	2.64
Bethlehem, St. Eliz. ...	1.94	0.56	27	11	3.04
Santa Cruz ...	4.09	2.47	16	9	5.27
Pedro Plains, Police St. ...	0.29	0.24	27	2	1.48
Black River ...	5.33	2.38	16	7	4.82
Font Hill ...	3.65	0.90	26	9	5.73
Mount Edgecombe ...	6.62	1.96	2	17	6.93
Bluefields ...	11.49	1.62	23	15	...
Sweet River ...	9.23	2.50	6	13	7.52
Windsor, Sav.-la-mar ...	6.62	1.02	14	17	6.91
Orchard ...	8.21	1.06	14	17	..
Sav.-la-mar ...	5.30	1.21	13	12	5.84
Retreat ...	4.42	1.54	3	7	7.65
White Hall ...	6.63	1.19	25	18	..
Negril Point L.H. ...	4.55	0.75	25	17	5.90
Means ...	2.57	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

—	July. 1913.	July. Average.
	In.	In.
North-Eastern Division ...	4.17	6.28
Northern ...	2.63	3.21
West-Central ...	8.55	7.85
Southern ...	2.57	3.59
The Island ...	4.48	5.23

The heaviest rainfall, 18.14 inches, was apparently recorded at Ecclesdown in the parish of Portland; but as that rainfall is far above that of the neighbouring places it will be better to give the preference to Water Works until inquiry can be made. No rain fell at Denbigh and Woodleigh.

Rainfall at Grand Cayman. June, 1913.	Total Fall.	Greatest fall. Amount.	Greatest fall. Date.	No. of days on which 0.01 or more fell.
	In.	In.		
East End ...	...	...	...	..
Bodden Town ...	6.49	1.20	21	10
George Town ...	..	..	..	..
July, 1913.				
East End ...	4.83	3.30	1	6
Bodden Town ...	...	...	...	...
George Town ...	...	...	...	...

Shocks of Earthquake in July, 1913.

Date.	Mean time.	Intensity.	Notes: where felt, etc.
	hr. min.		
25	10 46 a.m.	III	Kingston, N 26° E., 0·063 inches. Duration 10 sec. Mt. Holstein, NW. and SE., 0·013. Prolonged: no sound.

The shock was felt throughout the eastern end of the Island, particularly at Morant Bay. The smoked glass plate of the seismograph at Mount Holstein showed that the centre was below that place, and this accounts for the small horizontal motion there. Mr. Brennan secnred a fine record from his seismograph at the P.W.O., Kingston; and the chief direction he noted passes through Mt. Holstein, or rather through the Blue Mountain Epicentre (B), whose record is attached to this Weather Report.

Plumb Point Light House—

Average No. of Miles of wind per diem	310
Greatest on the 22nd	498
Least on the 17th	149

The Weather Office,
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

THE BLUE MOUNTAIN EPICENTRE.

The "Fourth Report on Earthquakes in Jamaica" was published in 1909 as No. 365 of the Weather Reports; it was then shown that there were at least three epicentres which showed remarkable periodicity among the shocks; each centre had its own period, and any interval between two successive shocks from the same epicentre was found to be a multiple of its period. The epicentres then considered were (H), the Historic epicentre some 10 or 20 miles south-east of Kingston; (S), that near Siloah and Accompong at the northern boundary of the parish of St. Elizabeth; and (P) the epicentre among the Port Royal Mountains, about 10 miles east-north-east of Kingston.

The subject has received attention from time to time, and it is now found that almost all the shocks recorded in Jamaica proceed from as many as eight periodic earthquake epicentres. It will be convenient to consider each epicentre separately in these Reports; and we shall here consider (B), the Blue Mountain epicentre, about 8 miles south of Buff Bay and Orange Bay, and near Mount Holstein.

In the Fourth Report, p. 5, reference was made to the work of Professor Houzeau who lived at Gordon Town, and who recorded twelve shocks, felt there between the year 1870 and 1873: of these shocks nine belong to the (P) epicentre or series, and the remaining three belong to the (B) epicentre or series.

The record of these shocks which occurred before the commencement of the Weather Service is given in W. R. No. 337, pp. 12 and 13: the record of the shocks between the commencement of the Weather Service in 1880 and the Great Earthquake of 1907, Jan., 14, is given in W. R. No. 365, pp. 10 to 14: the after-shocks are given in W. R. No. 337, pp. 16 to 18; and the shocks subsequent to the after-shocks are given in W. R. No. 365, pp. 16 to 19, to the end of May, 1909, and they are continued in the current Weather Reports.

At first there was some difficulty in separating the different series; but the following method, combined with the notes as to locality of the shocks, renders the separation comparatively easy. Taking the first recorded shock as an epoch, the intervals between the following shocks and the epoch are compared with the corresponding intervals obtained by multiplying the period by the number of periods elapsed since the epoch. In this way it will be seen that as a rule the series runs on for some years with great accuracy, then a sudden change takes place; the period may slightly change: or the difference between the observed and computed intervals may become large; or both may occur. A new series is thus started with a new epoch; and so on continually.

THE BLUE MOUNTAIN EPICENTRE (B).

Date.	Interval Observed.	Period.	N.	Interval Computed.	Diff. O—C	Intensity.
	d.	d.		d.	d.	
1871--October, 27.9 ..	..	14.3	..	..	..	I
1871—December, 9.7 ..	42.8	"	3	42.9	—0.1	I
1872—January, 20.9 ..	85.0	"	6	85.8	—0.8	I.
1881—January, 7 8 ..	..	14.34	..	..	..	I.
1881—November, 4.6 ..	300.8	"	21	301.1	—0.3	I.
1882—December, 25.9 ..	717.1	"	50	717.0	+0.1	II.
1884—January, 14.4 ..	1101.6	"	77	1104.2	—2.6	I.
1884—January, 29.6 ..	1116.8	"	78	1118.5	—1.7	I.
1885—June, 16.3 ..	1620.5	"	113	1620.4	+0.1	I.
1886—April, 1.7 ..	1909.9	"	133	1907.2	+2.7	I.
1886—May, 12.6 ..	1950.8	"	136	1950.2	+0.6	III.
1890—April, 3.5 ..	3372.7	"	235	3369.9	+2.8	I.
1890—September, 19.7 ..	3541.9	"	247	3542.0	—0.1	II.
1891—January, 27.8 ..	3672.0	"	256	3671.0	+1.0	I.
1893—June, 3.6 ..	4529.8	"	316	4531.4	—1.6	II.
1894—September, 21.8 ..	5005.0	"	349	5004.7	+0.3	I.
1895—February, 12.7 ..	5148.9	"	359	5148.1	+0.8	I.
1895—September, 30.7 ..	5378.9	"	375	5377.5	+1.4	I.
1897—November, 10.4 ..	6150.6	"	429	6151.9	—1.3	I.
1898—January, 20.2 ..	6221.4	"	434	6223.6	—2.2	I.

EPICENTRE (B)—*continued.*

Date.	Interval Observed.	Period.	N.	Interval Computed	Diff. O—C	Intensity.
	d.	d.		d.	d.	
1907—February, 22.6 ..	..	14.305	..	..	..	III.
1907—December, 5.1 ..	285.5	"	20	286.1	—0.6	I.
1908—January, 16.3 ..	327.7	"	23	329.0	—1.3	I.
" —April, 26.8	429.2	"	30	429.2	+0.0	I.
" —June, 22.7 ..	486.1	"	34	486.4	—0.3	I.
" —August, 3.1 ..	527.5	"	37	529.3	—1.8	I.
" —October, 15.0 ..	600.4	"	42	600.8	—0.4	I.
1909—March, 7.3 ..	743.7	"	52	743.9	—0.2	II.
1909—April, 18.8 ..	786.2	14.305	55	786.8	—0.6	I.
" —July, 2.5 ..	860.9	"	60	858.3	+2.6	III.
" —September, 8.8 ..	929.2	"	65	929.8	—0.6	I.
" —November, 21.6 ..	1003.0	"	70	1001.4	+1.6	I.
1910—January, 1.9 ..	1044.3	"	73	1044.3	+0.0	I.
" —January, 16.0 ..	1058.4	"	74	1058.6	—0.2	I.
" —February, 15.2 ..	1088.6	"	76	1087.2	+1.4	I.
" —March, 14.0 ..	1115.4	"	78	1115.8	—0.4	I.
" —July, 6.3 ..	1229.7	"	86	1230.2	—0.5	I.
" —August, 3.8 ..	1258.2	"	88	1258.8	—0.6	I.
" —August, 30.9 ..	1258.3	"	90	1287.4	—2.1	I.
1910—August, 30.9 ..	..	14.30	..	..	..	I.
" —October, 25.7 ..	55.8	"	4	57.2	—1.4	I.
" —November, 12.5 ..	73.6	"	5	71.5	+2.1	I.
" —December, 8.5 ..	99.6	"	7	100.1	—0.5	I.
1911—March, 2.4 ..	..	14.30	..	..	..	I.
" —April, 12.7 ..	41.3	"	3	42.9	—1.6	I.
" —June, 12.0 ..	101.6	"	7	100.1	+1.5	I.
" —July, 8.6 ..	128.2	"	9	128.7	—0.5	I.
" —November, 2.9 ..	245.5	"	17	243.1	+2.4	II.
1911—November, 2.9 ..	..	14.34	..	..	..	II.
" —December, 13.4 ..	40.5	"	3	43.0	—2.5	I.
1912—April, 23.4 ..	172.5	"	12	172.1	+0.4	I.
" —September, 26.9 ..	329.0	"	23	329.8	—0.8	I.
" —October, 25.1 ..	357.2	"	25	358.5	—1.3	I.
" —November, 9 ..	372.1	"	26	372.8	—0.7	I.
" —December, 23.1 ..	416.2	"	29	415.9	+0.3	II.
1913—July, 25.4 ..	630.5	"	44	631.0	—0.5	III.

The first break in the above series is due to want of records between Prof. Houzeau's time and the commencement of the Weather Service; then there is a long run of 18 years with a period of 14.34 days, when suddenly the whole series appearently stops. The great earthquake 1907, January, 14, did not immediately affect it; but it recommenced 1907, February, 22, with a shock of No. III. intensity; and its new period was 14.305 days. This period was maintained for three and a half years; but irregularities occurred in August, 1910, March, 1911, and November, 1911, which have been indicated by breaks in the above table. Since November, 2, 1911, the series has been regularly continued, the period having reverted to the former value of 14.34 days.

Now this is not the only Epicentre which behaves in this remarkable manner; with the exception of the grand Annotto Bay series, which has been perfectly regular, since 1880, and the curious binary series at Moneague, they all show the pecularities noted in the Blue Mt. series. For instance, the Port Royal Mt. series follows the former so closely that the latter also stops for some years before the Great Earthquake, no shocks being recorded between November, 1900 and June, 1906.

It therefore becomes necessary to make a careful study of each series in order to finally compare them. Moreover, it will be found that there are a few "sporadic" shocks remaining on the General Register which cannot be attributed to any Epicentre; it is most important to arrive at this final list.

From a scientific point of view, I consider that the subject of Jamaica earthquakes is distinctly hopeful; predisposing causes have to be ascertained, and then if the time for any centre has arrived a shock from that centre may be expected. The whole earth was disturbed before and after the great earthquake of 1907, but with reference to the series considered in the present notice and the last shock, it is impossible to overlook the shocks in the Island of St. Thomas, and the neighbouring Islands, on July, 24th, and the shock in Nicaragua the same day, although the latter were due to volcanic action; if this was the predisposing cause affecting (B) whose time was almost due, the shock occurred within 12 hours of its "computed" time.

In the absence of very delicate instruments recorded near these epicentres, we cannot do better than trust to the information supplied to the Weather Service by num rous correspondents, for whom the Earthquake Scale adopted in Jamaica seems very convenient; it has been so connected with the actual movement of the ground that it could easily be compared with other scales if they were also referred to the movement of the ground; but this does not seem to have been effected as yet.

JAMAICA EARTHQUAKE SCALE.

	Horizontal motion. In.
I. Light shock	0.003
II. Well marked shock	0.010
III. Shock sufficient to make houses rock	0.032
IV. Shock sufficient to crack wall of houses	0.100
V. Shock sufficient to throw down a few houses	0.316
VI. Shock sufficient to throw down almost all houses	1.000

MAXWELL HALL,
Govt. Met.

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JAMAICA

WEATHER REPORT

FOR THE MONTH OF

AUGUST, 1913.

The Bar-pressures at all the Stations except the Hill Gardens, are reduced to the standards of Kew, 32°, gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.970	29.941	80.1	81.8	85.0	75.8	9.2	86.5	15	69.0	17	17.5
Kingston ..	24	29.949	29.905	76.8	84.9	89.8	73.2	16.6	93.2	26	70.8	19	22 4
Negril Point Light House ..	33	29.957	29.926	78.3	84.1	86.7	72.2	14 5	89.3	13	68.6	25	20.7
Castleton Gardens ..	496	..	..	68.8	84.1	89.6	67.1	22.5	94.	1*	63.	23	31
Hope Gardens† ..	668	29.952	29.880	74.6	85.6	89.7	69.9	19.8	96.	20	67.	22	29.
Stony Hill Indus. School ..	1,400	..	..	71.1	81.3	84.9	66.2	18.7	90.	26	64.	20*	26.
Hill Gardens ..	4,900	25.297	25.273	64.4	66.9	71.3	53.3	18.0	77.	14	56.	11*	21.

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction from and miles per hour.				Amount of Cloud Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	75.3	86	77.0	85	9.92	230	ESE	10	ESE	11	1.5	2.3	2.3	1.1	2.1	2.1
Kingston ..	24	69.5	78	72 7	67	1.08	219	NE	4	SE	17	0.6	1.3	2.2	2.3	1.4	2.8
Negril Point Light House‡ ..	33	70.9	78	75.1	75	6.10	192	ESE	7	SE	10	0.5	1.0	3.2	3.0	5.1	0.3
Castleton Gardens ..	496	67.0	93	72.9	70	9.77	..	..	..	..	..	..	..	..	..	..	
Hope Gardens ..	668	66.1	74	69.1	57	2.06	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	66.7	86	69.8	68	3.16	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	57.8	80	61.4	81	5.24	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a m.and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m. ENE 6.2

RAINFALL FOR AUGUST, 1913.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month, according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	AUGUST, 1913. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	13.84	3.82	29	11	7.17
Ecclesdown ...	15.55	6.24	19	10	...
Spring Valley .	16.18	4.30	18	10	.
Bath ...	13.20	3.75	8	16	10.01
Boston ..	8.85	2.50	10	6	8.15
Moore Town ...	13.50	...	...	...	15.54
Port Antonio ...	18.88	8.80	19	16	10.76
Fellowship ...	9.46	3.22	19	16	14.28
Windsor, Portland ...	15.20	7.06	19	12	...
Johnson River Bridge ...	14.81	4.85	18	18	10.02
Shrewsbury ...	4.94	1.25	10	9	..
Cedar Valley, St. Thos. ...	10.22	2.60	18	12	9.76
Hope Bay ...	8.25	2.70	19	13	...
Moy Hall, St. Thos. ...	9.80	3.25	11	10	7.96
Lennox ...	5.40	1.75	4	8	..
Hill Gardens ...	5.24	...	...	...	7.92
Buff Bay ...	2.89	1.02	10	5	5.70
Vinery ...	2.31	1.05	4	5	...
Windsor Castle, Port. ...	3.70	2.00	9	4	..
Greenvale, Portland ...	2.07	1.31	16	5	...
Mt. Holstein ...	5.36	1.68	22	11	6.69
Irish Town ..	3.09	2.10	10	2	...
Rose Hill ...	...	..	...	...	...
Hardware Gap ...	4.50	...	...	...	6.73
Stony Hill Ind. School ...	3.16	1.10	10	10	9.44
Castleton Gardens ...	9.77	...	...	...	10.03
Lawrence Tavern ...	9.94	2.15	3	10	8.58
Cedar Valley, Red Hills ...	4.54	1.25	21	11	...
Carew Castle ...	6.72	2.00	22	10	10.50
Agualta Vale ...	1.24	0.45	4	5	...
Water Valley ...	1.26	0.75	10	6	4.40
Albany, Ry. Station ..	2.31	0.76	4	5	...
Platfield ...	2.85	0.78	4	7	...
Richmond, St. Mary ..	5.15	3.08	4	7	4.97
Hampstead, St. Mary ...	1.84	0.62	10	4	...
Kendal, St. Mary ...	2.28	0.68	10	8	...
Lucky Hill ...	2.18	1.37	10	5	...
Rio Hoe ...	1.54	0.70	10	5	6.27
Unity Valley ...	4.62	1.95	10	10	6.49
Moneague ...	2.80	1.65	10	6	6.03
Claremont ...	1.32	0.58	10	4	5.53
Albion, St. Ann ...	3.52	1.13	4	9	6.10
Averham Park ...	2.84	1.80	18	4	4.86
Means ...	6.43	...	..	...	...

NORTHERN DIVISION.	AUGUST, 1913. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			
Port Maria ...	3.16	0.87	10	8	4.72
Ocho Rios ...	1.50	0.45	17	6	2.72
Bogue, Ocho Rios ...	2.53	1.14	4	5	...
Drax Hall ...	1.42	0.52	23	6	3.59
Liberty Hill ...	...	...	...	...	...
St. Ann's Bay ...	2.12	0.61	4	7	2.65
Seville ...	1.65	0.60	4	6	3.55
Richmond Estate ...	1.33	0.90	10	4	3.36
Llandovery ...	0.82	0.64	9	2	2.86
Runaway Bay ...	1.50	1.20	10	3	...
Brown's Town ...	2.09	1.00	18	3	3.98
Alexandria ...	2.15	0.70	10	5	...
Dry Harbour ...	...	...	...	...	...
Chewmagna, St. Ann ...	1.71	0.60	10	6	5.24
Home Castle ...	2.10	1.45	17	2	3.61
Richmond Pen ...	...	...	..	...	...
Mahogany Hall ...	3.20	1.25	22	3	5.85
Barnstaple ...	..	...	...	...	...
Brampton Bryan ...	...	...	...	...	...
Bryan Castle ...	...	...	...	...	...
Braco ...	...	...	...	...	...
Arcadia ...	1.52	0.90	10	3	3.54
Lancaster ...	1.26	1.26	3	1	3.21
Harmony Hall ...	1.32	1.12	10	3	2.57
Vale Royal ...	2.33	1.13	10	4	4.54
Colchis Pen ...	1.79	0.62	9	5	5.32
Swanswick ...	..	...	...	..	...
Georgia ...	...	...	...	...	...
Long Pond ...	...	...	...	...	...
Hyde Hall ...	...	...	...	. .	...
Steelfield ...	...	...	. .	...	...
Etingdon ...	...	...	...	...	...
Oxford ...	.	...	...	...	...
Cambridge, Trelawny ...	...	...	...	...	...
Lottery ...	1.55	0.90	10	4	3.56
Falmouth ...	0.82	0.60	10	4	...
Florence Hall ...	1.01	0.85	10	2	...
Kent ...	...	...	...	...	...
Gales Valley ...	3.09	2.00	18	4	5.27
Canaan ...	...	...	...	...	...
Content ...	...	...	...	...	...
Bellfield ...	1.78	0.92	10	5	...
Hampden ...	. .	...	...	...	...
Moor Park ...	5.59	1.73	10	7	...
Success ...	...	...	...	...	...
Guilsbro ...	...	..	...	...	...
Cinnamon Hill ...	...	...	...	...	...
Rose Hall ...	...	...	...	...	...
Running Gut ...	...	...	...	...	...
Spring ...	...	...	...	...	...
Montego Bay ...	3.49	0.82	10	7	5.63
Catherine Hall ...	...	...	...	...	...
Retirement ...	3.57	0.97	11	11	...
King Gate ...	5.10	1.50	22	10	5.82
Round Hill ...	...	...	...	...	...
Sandy Bay ...	...	..	...	...	...
Blue Hole ...	7.59	2.00	22	9	...
Haughton Court ...	5.48	1.45	10	12	...
Lucea ...	5.44	1.37	18	10	6.86
Westfield ...	...	...	...	...	...

CENTRAL SUB-DIVISION.	AUGUST, 1913. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Rio Magno ...	...	...	...	...	...
Headworks, Rio Cobre ...	2.38	0.44	7	11	5.75
Linstead ...	9.25	1.60	7	12	8.22
Berkshire Hall ...	2.93	0.87	5	7	...
Point Hill ...	8.43	2.71	11	13	12.37
Brown's Hall ...	4.90	1.60	8	12	8.16
Worthy Park ...	2.96	1.14	22	7	5.49
Chapelton ...	3.92	0.68	28	10	6.81
Danks Works ...	4.10	1.10	21	13	5.84
Savoy House ...	4.84	0.92	21	14	6.04
Trout Hall ...	6.66	2.87	7	16	...
Cave Valley ...	7.10	1.90	22	...	7.25
Greenock ...	6.82	1.82	22	...	...
Means ...	3.46	...	...	...	...
WEST-CENTRAL DIVISION.					
Whitney ...	...	...	...	...	...
Mocho, Clarendon ...	1.20	1.00	28	2	...
Baillieston ...	5.18	1.22	31	11	6.45
Brokenhurst ...	4.60	1.80	18	9	7.12
Christiana ...	...	...	...	...	...
Chudleigh ...	7.86	2.42	31	14	...
Shooter's Hill ...	7.71	2.20	31	11	...
Spitzbergen ...	8.64	2.41	10	16	...
Kendal, Manchester ...	6.80	2.00	31	8	6.80
Marshalls Pen ...	...	...	...	...	...
Mandeville ...	7.26	1.80	31	16	8.03
Carlton, Mandeville ...	6.95	2.16	31	14	...
The Hill ...	7.71	1.95	31	12	...
Fairfield, Manchester ...	6.61	1.54	31	17	5.37
Ulster Spring ...	5.42	1.51	18	10	6.91
Freeman's Hall ...	7.02	2.50	18	12	...
Albert Town ...	7.32	1.52	18	11	...
Low River ...	4.35	0.87	31	12	...
Troy ...	5.82	1.38	9	9	10.07
Windsor Pen, Trel. ...	7.88	3.45	18	10	8.42
Wallingford ...	12.16	2.26	9	20	..
Balaclava Police Station ...	10.34	1.56	9	17	7.02
Siloah ...	11.55	1.70	10	12	...
Appleton Estate ...	11.30	1.70	10	18	10.88
Maggotty ...	10.08	1.62	18	21	10.65
Butlers ...	10.52	1.95	7	14	...
Deeside ...	7.28	1.90	9	7	...
Spring Vale ...	10.49	2.42	18	10	11.61
Garland ...	...	...	...	...	...
Mocho, Catadupa ...	7.53	1.46	18	9	...
Springfield, St. Elizabeth	9.75	2.63	10	15	...
Catadupa Rly. Station ...	6.45	0.90	10	16	...
Kempshot ...	4.30	0.97	18	11	8.61
Cambridge, St. James ...	4.09	0.70	10	14	...
Hazelymph ...	6.23	1.66	8	12	10.91
New Market, Police St. ...	8.96	1.10	10	17	...
The Bog, New Market ...	8.98	1.70	30	12	...
Kew Park ...	9.87	2.30	22	16	11.65
Montpelier ...	...	..	...	...	..
Knockalva ...	7.13	1.45	29	13	...
Ramble ...	10.06	2.20	29	13	...
Petersville ...	10.48	2.10	28	18	10.56
Darliston ...	8.66	1.44	10	17	14.62
Whithorn ...	8.20	1.50	30	16	11.74
Water Works ...	6.63	1.25	10	15	...
Great Valley, Han. ...	7.35	1.85	29	8	11.79
Prospect Park ...	7.81	1.95	9	16	...
Fontabelle, Westm. ...	6.19	1.14	10	14	11.23
Belleisle ...	6.94	1.30	10	17	10.47
Morgan's Bridge ...	4.70	1.46	9	14	11.70
King's Vale Police St. ...	10.81	1.90	8	17	10.76
Means ...	7.57	...	...	...	...

SOUTHERN DIVISION.	AUGUST, 1913. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	9.92	4.42	30	19	5.31
Pleasant Hill ...	10.46	2.58	30	13	...
East Prospect ...	10.87	3.45	29	16	...
Morant Bay ...	9.20	1.85	29	16	5.68
Easington ...	8.28	3.82	18	14	6.17
Bull Bay ...	0.00	..	...	...	2.82
Gordon Town ...	...	...	...	...	...
Hope Gardens ...	2.06	...	...	...	5.29
King's House Gardens ...	...	...	...	...	...
Halfway Tree ...	1.53	0.75	2	3	3.54
Lunatic Asylum ...	1.27	0.36	18	8	2.59
Parade Gardens ...	1.11	0.35	18	8	...
Kingston S. Camp Road ...	1.38	0.47	18	8	..
" P. W. Office ...	1.08	0.25	10	11	3.88
Plumb Point L. H. ...	1.40	0.56	18	9	3.50
Clifton Pen ...	4.43	1.11	18	9	...
Quarantine Station ...	1.10	0.60	17	8	...
Spanish Town ...	1.52	0.47	21	8	4.04
Hog Hole Pen ...	1.17	0.44	21	7	4.53
Hartlands ...	0.72	0.40	18	3	...
Belmont, Guanaboa Vale	4.62	1.29	15	15	...
Old Harbour ...	5.90	2.00	16	6	4.66
May Pen ...	2.81	0.77	31	9	4.79
Dunkley's, Vere ...	2.89	1.30	31	8	4.25
Dry River " ...	2.11	0.85	31	5	...
Denbigh ...	0.72	0.72	31	1	4.92
Woodleigh ...	0.80	0.80	31	1	...
New Yarmouth ...	2.67	1.54	31	5	3.86
Exeter, Vere ...	2.10	1.20	31	8	...
Rhymesbury ...	4.38	2.22	31	9	4.52
Milk River ...	3.82	1.12	30	7	5.26
Clarendon Pk. Ry. St. ...	7.57	2.69	18	10	...
Victoria Town ...	5.22	2.17	17	6	4.05
Stone's Hope ...	6.89	3.16	18	7	5.99
Newport, Manchester ...	8.37	2.68	18	10	5.39
Great Valley, Man. ...	2.80	0.84	10	9	4.49
Alligator Pond ...	0.87	0.47	18	3	3.08
Southfield, St. Elizabeth ...	3.73	1.25	10	9	...
Lititz ...	1.64	0.78	2	6	...
Long Hill ...	...	..	...	...	...
Torrington ...	3.34	1.10	16	8	4.55
Bethlehem, St. Eliz. ...	3.97	1.32	3	10	4.99
Santa Cruz ...	7.27	2.41	3	11	8.62
Pedro Plains Police St. ...	1.44	0.35	10	6	2.53
Mountainside ...	3.66	1.34	15	11	...
Black River ...	5.24	1.94	28	9	5.35
Font Hill ...	3.90	1.00	28	7	6.06
Mount Edgecombe ...	8.52	2.16	28	17	8.19
Bluefields ...	6.37	1.00	10	16	...
Sweet River ...	8.97	2.00	26	10	8.75
Windsor, Sav.-la-mar ...	7.88	2.10	4	12	7.38
Orchard ...	6.70	1.55	4	13	...
Sav.-la-mar ...	8.08	1.75	29	12	7.49
Retreat ...	8.91	1.78	7	16	8.70
White Hall ...	5.96	0.96	22	16	..
Negril Point L.H. ...	6.10	0.98	9	17	6.76
Means ...	4.52	...	...	...	...

NOTES.

COMPARATIVE TABLE OF RAINFALL.

(Based upon the "Average" Stations only.)

—	AUGUST.	
	1913.	Average.
	In.	In.
North-Eastern Division ...	6.43	7.71
Northern ...	3.46	4.83
West-Central ...	7.57	9.88
Southern ...	4.52	5.14
The Island ...	5.50	6.89

The heaviest rainfall, 18.88 inches, was recorded at Port Antonio. No rain fell at Bull Bay.

Rainfall at Grand Cayman. July, 1913.	Total Fall.	Greatest fall. Amount.	Greatest fall. Date.	No. of days on which 0.01 or more fell.
	In.	In.		
East End ...	...	...	...	..
Bodden Town ...	2.30	1.62	1	5
George Town ...	..	..	..	..
August, 1913.				
East End ...	3.70	0.90	8	12
Bodden Town ...	1.00	0.50	19	2
George Town ...	...	...	...	...

SHOCKS OF EARTHQUAKE IN AUGUST, 1913.

Date.	Mean time.	Intensity.	Notes: where felt, etc.
	hr. min.		
13	10 3 p.m.	II	Kingston, NNW and SSE 0.009
	"	II	Morant Bay, Seaforth.
16	...	II	Mt. Holstein, NW and SE 0.007. (Recorded on the Seismometer only).
20	9 10 p.m.	I	Kingston, 0.002.

PLUMB POINT LIGHT HOUSE—

Average No. of Miles of wind per diem	268
Greatest on the 5th	511
Least on the 16th	105

The Weather Office,
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

THE PORT ROYAL MOUNTAIN EPICENTRE.

There have been more shocks recorded from this Epicentre than from any other in Jamaica; as stated in Weather Report No. 419, page 5, the first nine were recorded by Prof. Houzeau at Gordon Town; and subsequently the Weather Service was greatly assisted by Dr. Manners who lived at The Abbey in the district of St. David; the last record he sent up was 1895 October 7; but the shocks continued until 1900, November 6; when a strange gap in the record occurs lasting until 1906. June 22, which reminds us of a similar gap which occurred about that time in the (B) series as detailed in Weather Report No. 419; but in the (P) series the period remained unchanged, and indeed the run from 1893 to 1913 on the period of 12.91 days is remarkable.

The following details are given in exactly the same form as for the (B) series; the day, commencing at midnight, is divided into tenths instead of hours for the more easy management of the length of the observed intervals, and the rest is a matter of easy arithmetic; two or three rather large differences between the observed and computed intervals have been admitted, pending a final study of "sporadic" shocks, or the residuals left after thus carefully working out the shocks from our eight periodic epicentres.

It may be as well to reprint from time to time the Jamaica Earthquake scale, and also to ask from my rainfall contributors and others any information they can give me about any earthquake shocks they may feel, for it is entirely to such information supplied during some 30 or 40 years that we have been able to arrive at these most remarkable results.

Earthquake Scale.	Horizontal Motion.
	In.
I. Light shock	0.003
II. Well-marked shock	0.010
III. Shock sufficient to make houses rock	0.032
IV. Shock sufficient to crack walls of houses	0.100
V. Shock sufficient to throw down a few houses	0.316
VI. Shock sufficient to throw down almost all houses	1.000

THE PORT ROYAL MOUNTAIN EPICENTRE. (P).

Date.	Interval Observed.	Period.	N.	Interval Computed.	Diff. O—C	Intensity.
	d.	d.		d.	d.	
1870—Feb. 3.3	..	12.80	..	..	..	I
1871—Aug. 20.9	563.6	"	44	563.2	+0.4	I
" Nov. 5.9	640.6	"	50	640.0	+0.6	I
" Dec. 3.4	668.1	"	52	665.6	+2.5	I
1872—Aug. 1.8	910.5	"	71	908.8	+1.7	I
1873—Mar. 3.4	1124.1	"	88	1126.4	—2.3	I
" June 30.0	1241.7	"	97	1241.6	+0.1	II
" Aug. 20.7	1294.4	"	101	1292.8	+1.6	I
" Sept. 26.1	1330.8	"	104	1331.2	—0.4	I
1880—Feb. 17.5	..	12.60	..	..	..	I
" Oct. 15.3	240.8	"	19	239.4	+1.4	I
1881—April 21.3	428.8	"	34	428.4	+0.4	I
" July 4.6	503.1	"	40	504.0	—0.9	I
" Aug. 12.2	541.7	"	43	541.8	—0.1	II
" Dec. 27.0	778.5	"	54	680.4	—1.9	III
1882—Feb 3.1	716.6	"	57	718.2	—1.6	I
" Mar. 15.9	757.4	"	60	756.0	+1.4	I
" Oct. 15.3	970.8	"	77	970.2	+0.6	I
" Dec. 27.3	1043.8	"	83	1045.8	—2.0	I
1883—April 8.5	1146.0	"	91	1146.6	—0.6	I
" Oct. 15.5	1336.0	"	106	1335.6	+0.4	I
" Nov. 21.3	1372.8	"	109	1373.4	—0.6	I

EPICENTRE (P).—*continued.*

Date.	Interval Observed.	Period.	N.	Interval Computed.	Diff. O—C.	Intensity.
	d.	d.		d.	d.	
1884—Jan. 25.7	1438.2	12.60	114	1436.4	+1.8	I
" Aug. 1.3	1626.8	"	129	1625.4	+1.4	II
" Nov. 19.5	1737.0	"	138	1738.8	—1.8	I
1885—Feb. 28.1	1837.6	"	146	1839.6	—2.0	II
1886—Jan. 21.5	2165.0	"	172	2167.2	—2.2	I
" May 1.3	2264.8	"	180	2266.0	—1.2	III
" May 14.5	2278.0	"	181	2280.6	—2.6	III
1887—Nov. 11.6	2824.1	"	224	2822.4	+1.7	I
" Nov. 21.0	2833.5	"	225	2835.0	—1.5	I
1889—May 15.8	3375.3	"	268	3376.8	—1.5	II
" June 21.8	3412.3	"	271	3414.6	—2.3	III
" Sept. 7.2	3489.7	"	277	3490.2	—0.5	I
1890—May 22.1	..	12.77	..	..	..	I
" Sept. 13.0	113.9	"	9	114.9	—1.0	III
1891—Jan. 7.2	230.1	"	18	229.9	+0.2	I
" Dec. 17.3	574.2	"	45	574.6	—0.4	I
" Dec. 31.6	588.5	"	46	587.4	+1.1	I
1892—April 11.2	690.1	"	54	689.6	+0.5	I
" Nov. 27.6	920.5	"	72	919.4	+1.1	II
1893—Aug. 22.0	1187.9	"	93	1187.6	+0.3	II
1893—Aug. 22.0	..	12.91	..	..	..	II
1894—Aug. 19.0	362.0	"	28	361.5	+0.5	I
1895—April 22.1	608.1	"	47	606.8	+1.3	I
" May 29.9	645.9	"	50	645.5	+0.4	I
" Oct. 7.9	776.9	"	60	774.6	+2.3	I
1896—July 29.9	1072.9	"	83	1071.5	+1.4	I
1897—Dec. 14.3	1575.3	"	122	1575.0	+0.3	I
1898—Jan. 23.0	1615.0	"	125	1613.8	+1.2	I
" May 30.2	1742.2	"	135	1742.8	—0.6	I
1900—Nov. 6.6	2632.6	"	204	2633.6	—1.0	I
1906—June 22.6	4686.6	"	363	4686.3	+0.3	II
1907—July 28.2	5087.2	"	394	5086.5	+0.7	I
" Aug. 22.7	5112.7	"	396	5112.4	+0.3	II
" Nov. 23.6	5205.6	"	403	5202.7	+2.9	I
" Dec. 4.9	5216.9	"	404	5215.6	+1.3	I
1908—Feb. 7.5	5281.5	"	409	5280.2	+1.3	IV
" Mar. 2.6	5305.6	"	411	5306.0	—0.4	II
" Mar. 29.0	5332.0	"	413	5331.8	+0.2	I
" June 27.7	5422.7	"	420	5422.2	+0.5	I
" Oct. 7.1	5524.1	"	428	5525.5	—1.4	I
" Nov. 3.5	5551.5	"	430	5551.3	+0.2	I
" Dec. 24.1	5602.1	"	434	5602.9	—0.8	I
1909—Feb. 2.4	5642.4	"	437	5641.6	+0.8	I
" Mar. 2.2	5670.2	"	439	5667.5	+2.7	I
" June 23.6	5783.6	"	448	5783.7	—0.1	I
" July 7.9	5797.9	"	449	5796.6	+1.3	I
" Aug. 2.8	5823.8	"	451	5822.4	+1.4	I
" Aug. 29.7	5850.7	"	453	5848.2	+2.5	I
" Sept. 8.8	5860.8	"	454	5861.1	—0.3	I
" Oct. 6.8	5888.8	"	456	5887.0	+1.8	I
1910—Feb. 1.3	6006.3	"	465	6003.2	+3.1	I
" Aug. 25.0	6211.0	"	481	6209.7	+1.3	I
" Nov. 20.4	6298.4	"	488	6300.1	—1.7	I
1911—Mar. 17.3	6415.3	"	497	6416.3	—1.0	I
" April 11.0	6440.0	"	499	6442.1	—2.1	II
" June 5.1	6495.1	"	503	6493.7	+1.4	I
" June 19.3	6509.3	"	504	6506.6	+2.7	I
" July 13.7	6533.7	"	506	6532.5	+1.2	I
1912—May 18.1	6843.1	"	530	6842.3	+0.8	I
1913—Aug. 13.9	7295.9	"	565	7294.2	+1.7	II
" Sept. 18.0	7331.0	"	568	7332.9	—1.9	I

The last shock occurred while this Weather Report was passing through the press.

M. H.

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No. 422.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

SEPTEMBER, 1913.

The Bar-pressures at all the Stations except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations	Elevation.	Bar Pressure		Temperature					Extreme Temperature				
		7 a.m.	3 p.m.	7 a.m.	3 p.m	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.927	29.887	80.2	82.8	85.0	75.5	9.5	87.0	23	70.5	30	16.5
Kingston ..	24	29.908	29.859	75.9	83.6	89.3	73.1	16.2	93.5	21	69.4	12	24.1
Negril Point Light House ..	33	29.909	29.871	78.5	83.9	86.7	73.3	13 4	89.3	18	71.3	13	18.0
Castleton Gardens ..	496	...	..	69.3	82.5	89.0	67.0	22.0	94	3	65	13*	29
Hope Gardens† ..	668	29.994	29.839	73.4	82.4	88	69	19	92	7	66	11	26
Stony Hill Indus. School ..	1.400	..	..	70.9	79.3	82.9	65.8	17.1	90	7	63	11*	27
Hill Gardens ..	4.900	25.269	25.247	64.1	65.2	67	57	10	71	2*	55	30	16

Stations	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction from and miles per hour.				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	74.5	82	75.4	77	11.52	253	Var.	7	Var.	9	1.2	2.5	2.6	1.0	2.0	2.8
Kingston ..	24	70.1	82	73.6	72	3.57	185	N	4	SE	15	2.5	0.3	3.0	4.4	0.9	2.9
Negril Point Light House‡ ..	33	71.5	78	74.2	73	3.31	204	E	7	SE	12	1.6	1.3	3.6	2.8	5.7	0.6
Castleton Gardens ..	496	67.5	97	74.5	74	8.15	..	..	..	..	..	..	..	..	..	..	
Hope Gardens ..	668	67.2	79	72.5	72	4.64	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	67.9	90	72.1	78	5.80	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	60.1	87	63.1	93	6.38	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m. E 6.2

RAINFALL FOR SEPTEMBER, 1913.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	SEPTEMBER, 1913.				
	Total Fall.	Greatest fall in 24 hours. Amount	Greatest fall in 24 hours. Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	16.25	2.84	10	18	10.88
Ecclesdown ...	28.78	5.20	27	21	.
Spring Valley .	16.24	3.18	10	14	.
Bath ...	15.25	3.10	10	16	12.03
Boston ..	9.60	2.80	10	15	11.04
Moore Town ...	22.10	...	...	...	14.21
Port Antonio ...	15.55	4.83	26	14	10.43
Fellowship ...	20.74	3.30	10	18	12.93
Windsor, Portland ...	18.58	3.30	10	12	...
Johnson River Bridge ...	14.32	5.07	26	14	11.48
Shrewsbury ...	9.52	2.62	29	11	..
Cedar Valley, St. Thos. ...	8.00	2.15	27	9	13.40
Hope Bay ...	7.75	2.45	10	13	...
Moy Hall, St. Thos. ...	6.72	3.00	29	9	10.92
Lennox ...	9.40	2.75	10	12	..
Hill Gardens ...	6.38	...	...	...	9.84
Buff Bay ...	4.53	1.66	10	8	4.94
Vinery ...	5.37	2.38	12	9	...
Windsor Castle, Port. ...	11.52	1.40	9	8	..
Greenvale, Portland ...	9.55	4.41	25	9	...
Mt. Holstein ...	5.73	1.75	8	16	9.02
Irish Town ..	6.62	1.41	4	10	...
Rose Hill ...	7.00	1.85	3	10	...
Hardware Gap ...	8.60	...	...	...	9.02
Stony Hill Ind. School ...	5.80	2.25	4	16	9.82
Castleton Gardens ...	8.15	...	...	...	11.21
Lawrence Tavern ...	7.53	2.25	4	11	9.53
Cedar Valley, Red Hills ...	6.96	1.30	9	14	...
Carew Castle ...	3.75	0.77	7	7	...
Agualta Vale ...	5.04	1.96	10	13	...
Water Valley ...	5.54	1.32	23	12	5.32
Albany, Ry. Station ..	5.85	1.11	24	10	...
Platfield ...	4.02	0.76	14	11	...
Richmond, St. Mary ..	2.42	0.65	25	7	5.59
Hampstead, St. Mary ...	5.64	1.09	23	15	...
Kendal, St. Mary ...	3.60	1.09	25	9	...
Lucky Hill ...	2.84	0.81	30	10	...
Rio Hoe ..	3.54	2.46	15	10	6.18
Unity Valley ...	0.90	0.40	8	5	8.20
Moneague ...	2.35	1.00	15	7	7.14
Claremont ...	2.29	0.70	4	7	5.31
Albion, St. Ann ...	4.19	1.86	4	12	6.98
Averham Park ...	4.89	1.67	25	11	4.83
Means ...	8.39	...	..	...	8.68

NORTHERN DIVISION.	SEPTEMBER, 1913.				
	Total fall.	Greatest fall in 24 hours. Amount	Greatest fall in 24 hours. Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	9.07	1.75	10	13	3.88
Ocho Rios ...	2.72	0.81	23	8	...
Bogue, Ocho Rios ...		...	...	...	...
Drax Hall ...	1.80	0.45	29	9	3.98
Liberty Hill ...	...	...	...	...	...
St. Ann's Bay ...	2.05	0.57	29	13	3.31
Seville ...	2.65	1.18	29	14	3.60
Richmond Estate ...	3.72	0.91	6	10	3.85
Llandovery ...	2.77	0.97	18	4	3.72
Runaway Bay ...	1.20	0.30	18	6	...
Brown's Town ...	0.96	0.68	8	3	5.30
Alexandria ...	1.85	1.60	4	2	...
Chewmagna, St. Ann ...	3.31	1.30	4	11	7.41
Home Castle ...	2.12	0.55	8	6	4.56
Richmond Pen ...	...	...	..	...	...
Mahogany Hall ...	4.07	2.42	8	4	6.97
Barnstaple ...	1.89	1.15	8	5	...
Brampton Bryan ...	..	...	...	...	...
Bryan Castle ...	...	...	...	...	...
Braco ...	...	...	...	...	...
Arcadia ...	3.30	1.06	15	9	4.02
Lancaster ...	2.46	0.51	29	10	3.89
Harmony Hall ...	2.38	0.48	24	9	3.64
Vale Royal ...	3.10	1.06	15	10	4.64
Colchis Pen ...	2.31	0.65	8	9	5.23
Swanswick ...	2.62	0.60	24	9	...
Georgia ...	3.18	0.90	15	9	3.92
Long Pond ...	2.83	0.93	24	8	3.91
Hyde Hall ...	3.59	1.40	24	10	5.20
Steelfield ...	2.80	0.90	24	6	4.25
Etingdon ...	2.93	0.65	24	10	3.13
Oxford ...	...	...	..	...	...
Cambridge, Trelawny ...	..	...	...	...	...
Lottery ...	3.30	1.10	24	10	4.38
Falmouth ...	...	...	...	...	...
Florence Hall ...	2.01	0.30	25	12	...
Kent ...	4.40	1.00	29	8	4.30
Gales Valley ...	5.48	1.80	5	9	7.00
Canaan ...	...	...	...	...	...
Content ...	4.05	0.55	25	9	4.88
Bellfield ...	3.64	1.05	24	11	...
Hampden ...	...	...	...	...	...
Moor Park ...	5.05	2.47	24	8	...
Success ...	...	...	...	...	...
Guilsbro ...	...	...	...	...	...
Cinnamon Hill ...	...	...	...	...	...
Rose Hall ...	...	...	...	...	...
Running Gut ...	...	...	...	...	...
Spring ...	...	...	...	...	...
Montego Bay ...	7.89	1.73	15	18	6.91
Catherine Hall ...	...	...	...	...	...
Retirement ...	9.55	1.83	24	21	...
King Gate ...	5.97	1.86	25	9	7.04
Round Hill ...	5.90	1.50	25	16	...
Sandy Bay ...	...	..	...	...	...
Blue Hole ...	18.08	3.51	24	16	...
Haughton Court ...	7.19	1.57	26	15	...
Lucea ...	7.98	1.34	24	15	7.68
Westfield ...	...	...	...	...	...

Central Sub-Division.	September, 1913. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Rio Magno ...	...	...	...	...	...
Headworks, Rio Cobre ...	8.14	3.07	23	10	6.54
Linstead ...	3.44	1.00	28	8	8.01
Berkshire Hall ...	4.63	0.95	17	13	...
Point Hill ...	9.11	2.43	27	14	11.54
Brown's Hall .	5.60	1.15	27	15	10.95
Worthy Park ...	3.62	1.09	8	7	7.56
Chapelton ...	5.93	0.95	8	15	7.91
Danks Works ...	6.79	1.16	23	14	9.37
Savoy House ...	6.94	1.28	9	13	9.35
Trout Hall ...	5.83	1.52	8	12	...
Cave Valley ..	6.32	2.00	4	17	7.61
Greenock ...	6.10	1.80	4	17	...
Means ...	4.54	...	...	...	5.70
West-Central Division.					
Whitney ...	7.58	1.20	16	14	...
Mocho, Clarendon ...	5.20	1.30	29	9	...
Baillieston ...	6.75	2.13	3	13	9.70
Brokenhurst ...	7.35	1.50	9	13	9.33
Christiana ...	5.57	1.26	3	20	...
Chudleigh ...	6.79	1.75	3	17	...
Shooter's Hill ...	5.57	0.83	16	18	...
Spitzbergen ...	9.14	3.60	3	18	...
Kendal, Manchester ...	4.92	0.88	16	14	9.53
Marshalls Pen ...	5.38	1.75	2	15	8.79
Mandeville ...	7.59	1.10	28	17	10.04
Carlton, Mandeville ...	5.71	1.16	28	15	...
The Hill ...	5.64	1.98	10	9	...
Fairfield, Manchester ...	7.35	1.36	10	17	7.80
Ulster Spring ...	5.51	1.36	8	14	8.44
Freeman's Hall ...	6.15	2.70	8	10	...
Albert Town ...	6.21	1.11	4	12	...
Low River ...	8.23	3.38	2	8	...
Troy ...	5.81	1.10	20	11	13.77
Windsor Pen, Trel. ...	9.51	1.66	5	16	9.06
Wallingford ...	14.51	3.00	4	17	..
Balaclava Police Station ...	13.38	2.71	4	15	...
Siloah ...	16.41	3.18	4	16	...
Appleton Estate ...	7.93	1.88	4	14	11.50
Maggotty ...	10.24	2.14	4	13	11.84
Butlers ...	12.85	2.30	4	17	...
Deeside ...	11.02	2.42	6	18	...
Spring Vale ...	13.17	2.54	10	18	10.61
Garland ...	...	...	...	...	...
Mocho, Catadupa ...	9.03	2.15	16	10	...
Springfield, St. Elizabeth	11.38	3.02	4	17	...
Catadupa Rly. Station ...	...	...	...	...	...
Kempshot ...	9.40	2.14	8	18	9.64
Cambridge, St. James ...	9.56	2.30	4	19	...
Hazelymph ...	9.54	2.40	4	16	10.39
New Market, Police St. ...	10.00	2.10	4	16	...
The Bog, New Market ...	10.69	1.74	28	19	...
Kew Park ...	10.39	1.99	7	19	12.06
Montpelier ...	...	..	...	...	..
Knockalva ..	9.79	2.48	7	22	...
Ramble ...	13.83	3.50	4	21	...
Petersville ...	9.30	1.94	5	20	9.83
Darliston ...	16.20	2.84	19	18	13.79
Whithorn ...	12.67	1.35	4	21	12.06
Water Works ...	11.48	2.20	16	17	...
Great Valley, Han. ...	13.23	2.25	11	17	12.27
Prospect Park ...	11.01	3.65	9	17	...
Fontabelle, Westm. ...	7.14	1.09	5	17	10.90
Belleisle ...	9.29	1.84	16	13	10.70
Morgan's Bridge ...	12.46	2.73	4	13	12.18
King's Vale Police St. ...	8.29	1.27	14	15	11.44
Means ...	9.11	...	...	...	10.78

Southern Division.	September, 1913. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	11.52	2.30	22	21	7.31
Pleasant Hill ...	11.48	1.77	29	14	...
East Prospect ...	13.06	2.10	10	15	...
Morant Bay ...	9.35	3.24	26	15	8.41
Easington ...	7.50	2.00	27	10	8.73
Bull Bay ...	5.00	1.43	16	7	4.70
Gordon Town ...	4.74	1.09	23	10	8.57
Hope Gardens ...	4.64	...	...	...	7.04
King's House Gardens ...	2.19	0.60	14	6	5.03
Halfway Tree ...	3.21	1.25	16	4	5.09
Lunatic Asylum ...	3.75	1.87	23	10	4.72
Parade Gardens ...	3.75	1.55	23	9	...
Kingston S. Camp Road ...	5.35	1.83	23	10	..
" P. W. Office ..	3.57	1.14	24	11	4.18
Plumb Point L. H. ...	3.28	1.02	27	8	3.81
Clifton Pen ...	2.30	0.84	23	6	...
Quarantine Station ...	2.19	0.61	10	6	...
Spanish Town ...	3.73	2.10	23	7	5.30
Hog Hole Pen ...	5.79	2.44	23	6	6.33
Hartlands ...	3.17	0.98	23	7	...
Belmont, Guanaboa Vale	5.34	1.29	27	14	...
Old Harbour ...	6.99	1.66	29	9	6.45
May Pen ...	4.38	1.37	29	14	7.89
Dunkley's, Vere ...	6.50	1.76	23	7	6.52
Dry River " ...	5.98	2.30	23	7	...
Denbigh ...	2.80	1.50	29	4	5.99
Woodleigh ...	3,00	2.00	29	4	...
New Yarmouth ...	5.88	1.85	23	8	5.73
Exeter, Vere ...	6.51	1.85	14	9	...
Rhymesbury ...	5.61	1.32	10	12	5.96
Milk River ...	3.60	1.50	26	6	6.33
Clarendon Pk. Ry. St. ...	5.80	2.45	29	15	...
Victoria Town ...	7.19	2.06	10	8	...
Stone's Hope ...	6.67	1.85	29	9	8.30
Newport, Manchester ...	7.80	2.04	10	16	...
Great Valley, Man. ...	5.67	2.10	10	11	6.63
Alligator Pond ...	3.16	1.49	10	4	...
Southfield, St. Elizabeth ...	5.12	1.62	29	9	...
Lititz ...	2.55	1.13	10	11	...
Long Hill ...	6.12	1.58	16	11	8.52
Torrington ...	4.75	1.85	8	7	6.42
Bethlehem, St. Eliz. ...	9.09	1.81	29	12	6.78
Santa Cruz ...	5.80	2.17	7	10	...
Pedro Plains Police St. ...	2.08	0.74	10	8	4.90
Mountainside ...	...	...	...	...	...
Black River ...	4.47	1.58	9	13	5.75
Font Hill ...	3.60	0.70	29	12	7.11
Mount Edgecombe ...	7.33	1.41	4	20	8.39
Bluefields ...	7.24	1.09	19	19	...
Sweet River ...	13.15	2.30	28	15	7.83
Windsor, Sav.-la-mar ...	7.35	2.14	14	17	7.26
Orchard ...	8.91	1.95	16	19	...
Sav.-la-mar ...	7.78	2.35	16	15	6.96
Retreat ...	5.23	1.28	20	9	8.28
White Hall ...	4.97	2.02	28	10	..
Negril Point L.H. ...	3.31	1.13	28	10	7.51
Means ...	5.55	...	...	...	6.49

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

	September.	
	1913.	Average.
	In.	In.
North-Eastern Division ...	8.39	8.68
Northern ...	4.54	5.70
West-Central ...	9.11	10.78
Southern ...	5.55	6.49
The Island ...	6.90	7.91

The rainfall was therefore about the average.

The heaviest rainfall, 28.78 inches, was recorded at Ecclesdown: and less than an inch fell at Unity Valley and Brown's Town.

Errata. W. R. No. 421.
Mocho, Clarendon. Instead of the figures given for rainfall, read 5.30, 1.20, 11,11.

Rainfall at Grand Cayman, August, 1913.	Total Fall.	Greatest fall. Amount.	Greatest fall. Date.	No. of days on which 0.01 or more fell.
	In.	In.		
East End ...	3.70	0.90	2	12
Bodden Town ...	1.00	0.50	19	2
George Town ...	..	..	..	..
September, 1913.				
East End ...	...	...	...	...
Bodden Town ...	8.95	2.50	28	13
George Town ...	...	...	...	...

Shocks of Earthquake in September, 1913.

Date.	Mean time.	Intensity.	Notes: where felt, etc.
	hr. min.		
18	1 10 a.m.	II	Mt. Holstein, NW and SE 0.007. Sharp and noisy.
24	Night between 24th and 25th	I	Mt. Holstein; N and S 0.005
25	2 10 p.m.	I	Lititz.

Plumb Point Light House—

Average No. of Miles of wind per diem	226
Greatest on the 25th and 26th	355
Least on the 28th	99

The Weather Office,
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

THE ANNOTTO BAY EPICENTRE.

In Weather Report No. 419, page 7, while discussing the Blue Mountain Series (B) reference was made to this series which has been regular since 1880, but it will here be shown that it has been apparently regular since 1812, thus forming a marked contrast to the other series.

The Epicentre is apparently about 8 miles to the N. E. of Annotto Bay, and therefore below the sea; the shocks are few and far between, and the difference between the observed and computed times is about a day, as in the case of the other series, which is remarkable as the period is 30.498 days, and much longer than any of the other periods; we would have been prepared to admit differences proportional to the periods, but this does not seem to be necessary.

As stated in that Report there was some difficulty in separating the (B) and (P) series; but when accounts are given of shocks chiefly felt between Port Maria and Port Antonio we may be pretty sure that they belong to this series; and for these details we must refer to the volumes containing the original monthly Reports.

The following details are given in exactly the same form as for the (B) and (P) series; the day, commencing at midnight, is divided into tenths instead of hours for the more easy management of the length of the observed intervals; and the following is the Jamaica Earthquake scale:—

	Horizontal Motion.
	In.
I. Light shock	0.003
II. Well-marked shock	0.010
III. Shock sufficient to make houses rock	0.032
IV. Shock sufficient to crack walls of houses	0.100
V. Shock sufficient to throw down a few houses	0.316
VI. Shock sufficient to throw down almost all houses	1.000

THE ANNOTTO BAY EPICENTRE. (A).

Date.	Interval Observed.	Period.	N.	Interval Computed.	Diff. O—C	Intensity.
	d.	d.		d.	d.	
1880—Dec. 31.0	..	30.498	..	..	..	IV
1881—Sept. 2.8	245.8	"	8	244.0	+1.8	I
1882—Mar. 2.2	426.2	"	14	427.0	—0.8	I
1886—June 3.8 .. .	1980.8	"	65	1982.4	—1.6	IV
1886—Nov. 3.8	2133.8	"	70	2134.9	—1.1	I
1892—Aug. 9.9	4239.9	"	139	4239.2	+0.7	III
1900—Nov. 14.6	7257.6	"	238	7258.5	—0.9	I
1907—Jan. 20.5	9515.5	"	312	9515.4	+0.1	I

In the year 1812 there was a great earthquake, of VI intensity apparently, from this epicentre; the following note will be found in the Introduction, Vol. II of the Jamaica Meteorological Observations.

Nov. 11. About 10 minutes before 6 in the morning there was a great earthquake, which was felt all over the island but chiefly at the eastern end. Three shocks succeeded each other rapidly; there were tremblings, concussions, undulations, and sound. Great damage was done to the houses in Kingston. At Annotto Bay the anchorage ground sank; the 'Experiment" lost her anchor and 90 fathoms of cable which were swallowed up. There had been a slight shock previously at 2.30 a.m. that morning. (*Jam. Mag.* 1812, p. 364).

Now the interval between 1812 Nov. 11.2 and 1880 Dec 31.0 is 24886.8 days; and 816 periods of 30.498 days amount to 24886.4 days; so that apparently from 1812 Nov. 11.2 to 1907 Jan. 20.5 there has been no change in the period, which we can now write to four places of decimals, 30.4985 days.

The sinking of the anchorage ground at Annotto Bay reminds us of the sinking of the ground at Port Royal and at the eastern end of Kingston Ha bour during the two great historical earthquakes of 1692 and 1907; but the anchorage ground at Annotto Bay did more than sink; a large chasm must have opened, for the anchor and cable of the "Experiment" ran out with such force that unless a certain bulk-head (to which the end of the cable was attached) had given way the ship would probably have foundered. This again reminds us of the convulsions of the bed of the sea at the Historical Epicentre in 1907 which dragged the telegraph cable a mile out of its position, broke it, and then dragged the ends a mile apart.

THE HISTORIC EPICENTRE.

This is situated about 10 miles south of Bull Bay and the mouth of the Hope River, and is therefore below the sea; it is 40 miles south of the Epicentre (A); and indeed these four Epicentres A, B, P, and H, are nearly on a line north and south; and it was along this line that the great earthquake of 1907 was chiefly felt, so that the area of maximum intensity was not an oval as first suggested but a narrow band. (W. R. No. 365, p. 21).

The after-shocks of that great earthquake showed periodicity by coming to a maximum every 21 days; but this peculiarity (which has been noticed elsewhere) was found to continue long after those shocks had ceased.

THE HISTORIC EPICENTRE. (H).

Date.	Interval observed.	Period.	N.	Interval computed.	Diff. O—C	Intensity.
	d.	d.				
1880—July 16.9	..	21.23	..	..	..	III
1883—July 26.2	1104.3	..	52	1104.0	+0.3	I
1884—Jan. 14.5	1276.6	"	60	1273.8	+2.8	III
" Feb. 24.4	1317.5	"	62	1316.3	+1.2	II
1885—Aug. 30.8	1870.9	"	88	1868.3	+2.6	III
1886—Jan. 1.9	1995.0	"	94	1995.7	—0.7	II
" Jan. 23.0	2016.1	"	95	2016.9	—0.8	I
" Apr. 18.2	2101.3	"	99	2101.8	—0.5	II
1888—Feb. 26.9	2781.0	"	131	2781.2	—0.2	III
" Mar. 18.2	2801.3	"	132	2802 4	—1.1	I
" July 2.2	2907.3	"	137	2908.6	—1.3	I
1890—Oct. 30.8	3757.9	"	177	3757.7	+0.2	II
1891—Feb. 16.6	3866.7	"	182	3863.9	+2.8	I
" Oct. 27.1	4119.2	"	194	4118.6	+0.6	III
1892 Sept. 29.6	4457.7	"	210	4458.3	—0.6	I
1897—Apr. 8.2	..	21.11	..	..	..	I
1899—July 11.6	824.4	"	39	823.3	+1.1	I
1900—July 23.1	1200.9	"	57	1203.3	—2.4	II
1906—Nov. 14.0	3505.8	"	166	3504.3	+1.5	III
1907—Jan. 14.6	3567.4	"	169	3567.6	—0.2	VI
" Feb. 3.0	3586.8	"	170	3588.7	—1.9	III
" Feb. 26.9	3610.7	"	171	3609.8	+0.9	I
" Mar. 19.3	3631.1	"	172	3630.9	+0.2	I
" Apr. 9.1	3651.9	"	173	3652.0	—0.1	III
" May 1.8	3674.6	"	174	3673.1	+1.5	I
" June 13.1	3716.9	"	176	3715.4	+1.5	III
" July 23.3	3757.1	"	178	3757.5	—0.4	I
1908—Jan. 28.2	3946.0	"	187	3947.5	—1.5	I
" May 14.4	4053.2	"	192	4053.1	+0.1	II
" Aug. 7.4	4138.2	"	196	4137.5	+0.7	II
" Aug. 30.2	4161.0	"	197	4158.7	+2.3	I
" Nov. 21.0	4243.8	"	201	4243.1	+0.7	I
1909—Jan. 2.4	4286.2	"	203	4285.3	+0.9	I
" Jan. 21.5	4305.3	"	204	4306.4	—1.1	I
" Mar. 6.1	4348.9	"	206	4348.6	+0.3	I
" Mar. 29.2	4372.0	"	207	4369.7	+2.3	I
" May 29.2	4433.0	"	210	4433.1	—0.1	I
1910—July 24.9	4854.7	"	230	4855.3	—0.6	I
1911—July 20.9	5215.7	"	247	5214.2	+1.5	I
1912—Mar. 28.0	5466.8	"	259	5467.5	—0.7	I
" Sept. 14.0	5636.8	"	267	5636.4	+0.4	I

The break in this series requires attention: the interval between 1892 Sept 29.6 and 1897 Apr. 8'.2 is 1651.6 days; and if we divide this interval by 78 we get 21.17 as the period, which is exactly the mean of the two periods 21.23 and 21.11. Hence it would appear that between the two epochs the "period' was regularly diminishing.

Between 1907 Jan. 14 and the end of July only the more prominent of the After-shocks have been given.

It was the light shock of 1909 Jan. 2, felt over the whole eastern part of the Island, which continued as it were the After-shocks and led to these investigations.

M. H.

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A Stack

UNIVERSITY OF ILLINO
10 DEC 1913

No. 423.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

OCTOBER, 1913.

The Bar-pressures at all the Stations except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.938	29.889	78.4	83.3	84.4	74.5	9.9	86.0	5	67.5	25	19.0
Kingston ..	24	29.921	29.865	75.2	83.6	89.8	72.5	17.3	92.9	20	69.5	30	23 4
Negril Point Light House ..	33	29.926	29.876	77.5	84.2	86.4	72.3	14 1	88.5	11	69.0	27	19.5
Castleton Gardens ..	496	..	..	69.3	81.5	89.2	66.0	23.2	93	3*	63	13*	30
Hope Gardens† ..	668	29.933	29.855	72.6	83.0	87.8	68.8	19.0	92	19	67	24	25
Stony Hill Indus. School ..	1,400	..	..	70.4	78.8	82.4	65.4	17.0	87	3	63	13	24
Hill Gardens ..	4,900	25.280	25.238	64.3	65.2	69.3	56.3	13.0	72	10*	54	7	18

Stations	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction from and miles per hour.				Amount of Cloud Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	74.0	87	75.5	78	6.74	239	E	7	E	9	1.2	1.8	2.5	0.5	1.5	2.4
Kingston ..	24	67.8	78	73.3	71	1.41	161	N	4	SE	11	1.3	1.1	1.6	3.5	1.1	2.4
Negril Point Light House‡ ..	33	71.9	82	76.3	77	5.58	186	E	8	SE	10	1.3	1.7	2.9	2.1	5 1	0.3
Castleton Gardens ..	496	66.9	93	63.1	52	6.01	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	66.2	79	72.3	70	4.14	.	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	67.1	86	73.3	83	8.18	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	58.2	81	63.1	93	8.26	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m. NE 6.6

RAINFALL FOR OCTOBER, 1913.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

North-Eastern Division.	October, 1913. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01or more fell.	Average.
	In.	In.			In.
Manchioneal ...	7.96	1.94	15	11	18.91
Ecclesdown ...	11.29	2.44	15	15	..
Spring Valley, Portland .	12.03	2.01	15	16	.
Bath ...	8.32	1.95	12	16	18.37
Boston ..	7.90	3.30	15	5	13.11
Moore Town ...	19.44	...	...	...	21.93
Port Antonio ...	19.06	11.04	29	15	15.16
Fellowship ...	13.62	4.85	29	16	18.37
Windsor, Portland ...	12.90	5.54	29	12	...
Johnson River Bridge ...	4.60	2.91	29	12	13.85
Shrewsbury ...	12.67	4.00	16	13	..
Cedar Valley, St. Thos. ...	8.36	4.60	29	6	15.05
Hope Bay ...	13.25	5.45	16	14	...
Moy Hall, St. Thos. ...	6.86	5.00	30	9	19.97
Lennox ...	11.85	3.75	15	12	..
Hill Gardens ...	8.26	...	...	...	18.20
Buff Bay ...	5.82	2.10	15	8	11.76
Vinery ...	5.11	1.98	7	10	...
Windsor Castle, Port. ...	7.71	3.45	16	9	..
Greenvale, Portland ...	13.51	4.45	19	13	...
Mt. Holstein ...	6.91	1.03	12	19	12.72
Irish Town ..	5.76	1.40	16	7	...
Rose Hill ...	9.78	2.65	6	13	...
Hardware Gap ...	9.10	...	...	...	...
Stony Hill Ind. School ...	8.18	1.60	6	14	14.38
Castleton Gardens ...	6.01	...	...	...	15.48
Lawrence Tavern ...	7.68	1.35	12	10	...
Cedar Valley, Red Hills ...	7.45	1.30	6	12	...
Carew Castle ...	4.69	1.62	31	7	13.03
Agualta Vale ...	2.55	0.82	7	7	...
Water Valley ...	0.70	0.20	16	7	7.93
Albany, Ry. Station ..	0.94	0.64	29	4	...
Platfield ...	3.10	0.73	18	11	...
Richmond, St. Mary ..	1.55	0.61	8	8	9.83
Hampstead, St. Mary ...	5.66	1.88	7	11	...
Troja ...	2.16	0.48	28	7	...
Lucky Hill ...	3.24	0.90	28	8	...
Rio Hoe ...	3.31	0.80	30	12	9.64
Unity Valley ...	5.25	1.86	12	12	9.50
Moneague ...	3.99	1.25	12	8	9.94
Claremont ...	2.98	1.15	16	8	8.41
Albion, St. Ann ...	5.84	3.46	31	16	9.02
Averham Park ...	4.41	2.67	16	10	9.35
Means ..	7.14	...	..	...	...

Northern Division.	October, 1913. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	4.40	1.78	15	10	8.86
Ocho Rios ...	2.03	1.78	16	3	4.84
Bogue, Ocho Rios ...	3.02	1.65	16	7	...
Drax Hall ...	2.45	0.90	16	10	7.58
St. Ann's Bay ...	3.22	1.55	16	9	7.22
Seville ...	3.49	1.76	16	10	7.09
Richmond Estate ...	3.73	1.72	16	6	...
Llandovery ...	2.53	1.13	16	5	7.48
Runaway Bay ...	2.30	0.60	28	7	...
Brown's Town ...	9.13	2.40	2	14	8.98
Alexandria ...	3.28	0.95	12	7	...
Chewmagna, St. Ann ...	5.19	1.40	20	10	8.35
Home Castle ...	4.55	2.20	7	11	7.14
Richmond Pen ...	6.80	1.45	7	9	7.78
Mahogany Hall ...	6.85	1.67	8	11	8.56
Barnstaple ...	7.01	1.79	7	11	...
Brampton Bryan ...	4.81	1.91	7	12	...
Bryan Castle ...	2.86	1.08	7	7	...
Braco ...	3.60	1.75	7	6	...
Arcadia ...	4.06	1.40	7	8	6.24
Lancaster ...	3.68	1.50	20	6	5.96
Harmony Hall ...	3.69	2.20	20	6	5.42
Vale Royal ...	5.25	1.38	6	10	6.69
Colchis Pen ...	5.71	1.35	7	12	...
Swanswick ...	6.35	1.70	6	14	...
Georgia ...	3.47	1.05	20	7	6.23
Long Pond ...	6.57	2.75	6	12	5 95
Hyde Hall ...	6.45	1.74	12	10	...
Steelfield ...	6.34	1.80	6	9	6.00
Etingdon ...	3.64	1.35	20	9	2.35
Oxford ...	...	...	..	...	...
Cambridge, Trelawny ...	...	...	...	...	...
Lottery ...	6.70	2.05	20	12	6.34
Falmouth ...	2.16	0.60	4	8	5.77
Florence Hall ...	4.30	3.00	20	8	...
Kent ...	10.07	4.03	20	12	6.48
Gales Valley ...	13.09	5.20	20	11	7.29
Canaan ...	...	...	...	...	...
Content ...	8.75	4.80	20	7	6.49
Bellfield ...	9.98	5.13	20	9	...
Hampden ...	...	...	...	...	...
Moor Park ...	6.34	2.47	8	9	...
Guilsbro ...	4.80	1.00	4	6	...
Rose Hall ...	8.30	2.50	6	6	6.11
Montego Bay ...	6.36	1.76	20	11	7.97
Catherine Hall ...	9.13	1.50	5	13	8.04
Retirement ...	5.85	1.19	12	17	...
King Gate ...	...	...	...	...	...
Round Hill ...	4.10	0.75	27	12	...
Blue Hole ...	7.12	3.74	20	10	...
Haughton Court ...	5.34	1.46	1	12	...
Lucea ...	6.01	1.50	20	11	8.52
Green Island ...	7.63	3.31	21	11	...
Central Sub-Division.					
Rio Magno ...	...	...	...	...	...
Headworks, Rio Cobre ...	3.64	0.80	10	8	9.79
Linstead ...	5.59	1.30	26	12	10.32
Berkshire Hall ...	3.32	0.71	28	10	...
Point Hill ...	8.15	1.63	6	11	16.83
Brown's Hall .	9.50	1.60	16	11	11.62
Worthy Park ...	4.87	1.52	6	8	10.41
Chapelton ...	5.37	1.27	31	12	11.81
Danks Works ...	6.19	1.36	6	10	12.41
Savoy House ...	6.19	1.96	6	8	9.96
Trout Hall ...	6.51	2.06	29	10	...
Cave Valley ..	5.20	2.00	28	15	...
Greenock ...	4.86	1.80	...	...	...
Means ...	5.83	...	...	...	...

West-Central Division.	October, 1913. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Whitney ...	8.75	2.50	16	5	...
Mocho, Clarendon ...	5.13	1.85	16	5	...
Baillieston ...	5.53	1.50	29	11	10.70
Brokenhurst ...	10.26	6.11	29	11	14.94
Christiana ...	6.65	1.44	13	16	...
Chudleigh ...	7.69	2.52	6	13	...
Shooter's Hill ...	11.70	3.49	29	12	...
Spitzbergen ...	10.07	3.30	29	11	...
Kendal, Manchester ...	11.19	3.88	29	9	14.96
Marshalls Pen ...	11.10	2.75	29	14	12.81
Mandeville ...	9.53	4.45	29	10	16.56
Carlton, Mandeville ...	10.75	5.00	29	14	...
The Hill ...	10.16	3.00	12	10	...
Fairfield, Manchester ...	9.76	3.36	6	8	10.60
Ulster Spring ...	8.78	2.60	7	11	...
Freeman's Hall ...	8.02	1.32	7	10	...
Albert Town ...	8.63	2.14	7	12	...
Lowe River ...	8.01	2.00	12	12	...
Troy ...	7.23	1.20	21	10	16.50
Windsor Pen, Trel. ...	12.95	3.20	20	22	9.49
Wallingford ...	5.62	1.47	18	12	..
Balaclava Police Station ...	6.34	1.15	16	13	13.38
Siloah ...	15.30	3.55	18	15	...
Appleton Estate ...	11.67	3.21	16	17	14.01
Maggotty ...	10.54	2.40	21	15	15.30
Butlers ...	13.95	2.80	8	17	...
Deeside ..	11.63	1.99	9	13	...
Spring Vale ...	...	...	...	...	...
Garland ...	...	...	...	...	...
Mocho, Catadupa ...	15.75	2.95	12	15	...
Springfield, St. Elizabeth	11.04	1.83	4	20	...
Catadupa Rly. Station ...	12.08	1.77	12	18	...
Kempshot ...	7.64	1.20	20	17	9.60
Cambridge, St. James ...	18.87	4.05	19	15	...
Hazelymph ...	18.19	4.47	19	16	10.66
New Market, Police St. ...	12.31	2.24	4	16	...
The Bog, New Market ...	10.15	2.34	12	14	...
Kew Park ...	9.78	2.09	11	18	11.68
Montpelier ...	...	..	...	...	..
Knockalva ..	13.21	2.05	20	14	...
Ramble ...	15.86	3.00	20	20	...
Petersville ...	15.13	4.50	16	16	11.33
Darliston ...	12.52	1.42	6	24	15.71
Whithorn ...	11.18	2.00	21	22	11.93
Water Works ...	7.30	1.30	21	18	...
Great Valley, Han. ...	7.93	1.00	2	10	...
Prospect Park ...	11.17	3.21	21	12	...
Fontabelle, Westm. ...	12.64	3.50	21	16	10.44
Belleisle ...	8.62	2.70	21	14	9.53
Morgan's Bridge ...	10.60	3.65	21	16	12.94
King's Vale Police St. ...	9.64	3.94	21	13	10.25
Means ...	10.57	...	...	...	...

Southern Division.	October, 1913. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	6.74	1.68	16	25	11.7
Pleasant Hill ...	5.53	1.03	29	13	...
East Prospect ...	4.39	2.20	29	16	...
Morant Bay ...	3.86	1.88	29	9	14.22
Easington ...	4.81	3.30	29	8	14.22
Bull Bay ...	3.25	3.10	29	2	...
Gordon Town ...	6.69	1.00	6	11	...
Hope Gardens ...	4.14	...	...	...	10.70
King's House Gardens ...	4.18	...	...	...	11.08
Halfway Tree ...	3.27	0.95	5	5	...
Lunatic Asylum ...	3.18	1.12	29	8	7.93
Parade Gardens ...	2.03	1.05	29	5	...
Kingston S. Camp Road ...	2.54	1.01	29	8	..
" P. W. Office ...	1.41	0.41	29	7	8.15
Plumb Point L. H. ...	1.23	0.84	29	8	7.67
Clifton Pen ...	1.93	0.85	4	4	...
Quarantine Station ...	1.10	0.94	29	3	...
Spanish Town ...	1.83	0.87	29	8	9.59
Hog Hole Pen ...	1.85	0.81	29	4	10.09
Hartlands ...	1.32	0.52	17	5	...
Belmont, Guanaboa Vale	7.72	1.25	14	17	...
Old Harbour ...	1.73	0.70	17	7	11.07
May Pen ...	4.41	2.80	11	6	11.57
Dunkley's, Vere ...	3.22	2.13	29	5	7.01
Dry River " ...	3.61	1.86	29	5	...
Denbigh ...	3.50	1.25	14	4	10.11
Toll Gate ...	6.84	3.10	29	9	...
Woodleigh ...	3.25	1.10	28	4	...
New Yarmouth ...	3.62	2.29	29	5	9.20
Exeter, Vere ...	3.15	2.55	29	5	...
Rhymesbury ...	3.16	2.50	29	8	8.49
Milk River ...	5.40	4.80	29	3	7.56
Clarendon Pk. Ry. St. ...	7.57	2.30	16	11	...
Victoria Town ...	4.69	4.09	29	2	11.55
Stone's Hope ...	5.12	2.53	29	10	13.35
Newport, Manchester ...	9.42	3.56	29	11	13.26
Great Valley, Man. ...	4.41	2.26	29	10	11.37
Alligator Pond ...	2.01	1.66	29	2	8.77
Southfield, St. Elizabeth ...	4.98	3.69	29	5	...
Lititz ...	3.04	1.30	29	10	...
Long Hill ...	8.45	3.02	12	14	13.00
Torrington ...	5.41	3.00	17	6	11.26
Bethlehem, St. Eliz. ...	6.70	3.05	17	11	...
Santa Cruz ...	10.32	1.97	12	14	12.01
Pedro Plains Police St. ...	3.11	1.17	17	8	6.60
Black River ...	4.13	2.30	12	14	8.74
Font Hill ...	6.40	1.60	11	10	9.95
Mount Edgecombe ...	10.22	2.46	16	14	10.05
Bluefields ...	8.78	1.72	20	12	...
Sweet River ...	5.15	1.50	29	10	10.06
Windsor, Sav.-la-mar ...	3.12	0.72	28	11	8.40
Orchard ...	3.44	1.02	28	10	...
Sav.-la-mar ...	2.88	0.68	29	8	8.99
Retreat ...	6.11	1.63	29	10	10.96
White Hall ...	7.04	2.37	21	12	..
Negril Point L.H. ...	5.58	1.08	21	15	8.37
Means ...	4.54	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

	October.	
	1913.	Average.
	In.	In.
North-Eastern Division ...	7.14	13.22
Northern ...	5.83	7.46
West-Central ...	10.57	12.02
Southern ...	4.54	10.28
The Island ...	7.02	10.74

Port Antonio and Moore Town had over 19 inches: Cambridge and Hazelymph had over 18 inches: but Albany Railway Station and Water Valley had less than 1 inch; and the country between Kingston and Old Harbour had less than 2.

The rainfall was therefore unevenly distributed, and below the average.

Rainfall at Grand Cayman, September, 1913.	Total Fall.	Greatest fall. Amount.	Greatest fall. Date.	No. of days on which 0.01 or more fell.
	In.	In.		
East End ...	7.06	2.90	25	5
Bodden Town ...	8.95	2.50	28	13
George Town ...	..	..	..	..
October, 1913.				
East End ...	...	...	...	...
Bodden Town ...	1.74	0.70	29	4
George Town ...	...	...	...	...

Shocks of Earthquake in October, 1913.

Date.	Mean time.	Intensity.	Notes: where felt, etc.
	hr. min.		
26	3 50 a.m.	II	Fontabelle, Westmoreland Sound rather loud.
		...	
		...	

Plumb Point Light House—

Average No. of Miles of wind per diem	169
Greatest on the 28th	398
Least on the 15th	72

The Weather Office,
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

THE MONEAGUE EPICENTRES.

There are two epicentres near this village which are to be distinguished chiefly by their slightly different periods; the records of their shocks come for the most part from Unity Valley and Albion: the intensity of the shocks is small, either I or II; and they are somewhat deeply situated.

There is this peculiarity, however, to be noticed, that some of the shocks grouped as (M. east) have been felt in St. Mary and as far as Kingston 31 miles to the S.E. of Moneague, and that some of the shocks grouped as (M. west) have been felt in Clarendon and as far as Windsor Pen 36 miles to the WNW of Moneague; so that (M. east) may be nearer Guy's Hill, and (M. west) may be nearer the Dry Harbour Mountains; but they cannot be marked on the map with the same accuracy as the other epicentres for want of fairly constant recording at other places besides Unity Valley and Albion.

The Moneague Epicentre (M. east).

Date.	Interval Observed.	Period.	N.	Interval Computed.	Diff. O—C.	Intensity.
	d.	d.		d.	d.	
1899 Jan. 21.4 ..	..	13.462	..	..	..	II.
1902 July 11.2 ..	1265.8	"	94	1265.4	+0.4	I.
" Nov. 10.0 ..	1387.6	"	103	1386.6	+1.0	I.
1903 Aug. 3.1 ..	1653.7	"	123	1655.8	−2.1	I.
" Aug. 16.4 ..	1667.0	"	124	1669.3	−2.3	I.
1907 Aug. 8.7 ..	3120.3	"	232	3123.2	−2.9	I.
" Oct. 3.7 ..	3176.3	"	236	3177.0	−0.7	II.
" Nov. 29.0 ..	3232.6	"	240	3230.9	+1.7	II.
" Dec. 11.2 ..	3244.8	"	241	3244.3	+0.5	I.
" Dec. 25. 9 ..	3259.5	"	242	3257.8	+1.7	II.
1908 Jan. 19.9 ..	3284.5	"	244	3284.7	−0.2	I.
" Feb. 2.1 ..	3297.7	"	245	3298.2	−0.5	I.
" Mar. 29.1 ..	3353.7	"	249	3352.0	+1.7	I.
" Apr. 11.0 ..	3366.6	"	250	3365.6	+1.1	I.
1909 Jan. 2.6 ..	3633.2	"	270	3634.7	−1.5	I.
" Jan. 30.3 ..	3660.9	"	272	3661.7	−0.8	I.
" Sept. 30.4 ..	3904.0	"	290	3904.0	0.0	I.
1911 June 12.0 ..	4523.6	"	336	4523.2	+0.4	I.
1912 Jan. 10.7 ..	4736.3	"	352	4738.6	−2.3	II.
" Mar. 8.0 ..	4793.6	"	356	4792.4	+1.2	II.
1913 Sept. 24.3 ..	5358.9	"	398	5357.9	+1.0	I.

The Moneague Epicentre (M. west.)

Date.	Interval Observed.	Period.	N.	Interval. Computed.	Diff. O—C.	Intensity.
	d.	d.		d.	d.	
1889 Mar. 6.8 ..	..	13.303	..	..	..	II.
1894 Feb. 4.9 ..	1796.1	"	135	1795.9	+0.2	I.
1895 Feb. 11.7 ..	2167.9	"	163	2168.4	−0.5	I.
1896 Feb. 18.1 ..	2539.3	"	191	2540.9	−1.6	II.
1898 Nov. 25.9 ..	3551.1	"	267	3551.9	−0.8	I.
1901 Oct. 13.6 ..	4602.8	"	346	4602.8	0.0	I.
1903 Sept. 19.1 ..	5308.3	"	399	5307.9	+0.4	I.
1906 Apr. 13.9 ..	6346.1	"	477	6345.5	+0.6	I.
" Nov. 25.1 ..	6571.3	"	494	6571.7	−0.4	I.
1907 Dec. 2.1 ..	6943.3	"	522	6944.2	−0.9	II.
" Dec. 28.2 ..	6969.4	"	524	6970.8	−1.4	I.
1908 Jan. 11.6 ..	6983.8	"	525	6984.1	−0.3	II.
" Feb. 6.5 ..	7009.7	"	527	7010.7	−1.0	II.
" June 5.5 ..	7129.7	"	536	7130.4	−0.3	I.
1909 Jan. 31.8 ..	7369.0	"	554	7369.9	−0.9	I.
1911 Jan. 22.5 ..	8089.7	"	608	8088.3	+1.4	I.
1912 Nov. 4.2 ..	8741.4	"	657	8740.1	+1.3	I.

THE SILOAH EPICENTRE.

As remarked in Weather Report No. 365 there is not much trouble in picking out the shocks from this epicentre; when we find that a shock was felt between Windsor Pen in Trelawny, and Potsdam in St. Elizabeth, or between Windsor Pen and Petersville in Westmoreland, or between Unity Valley and Mount Edgecombe in Westmoreland, we may be pretty sure that they came from this epicentre. Their intensity is considerable, sometimes III. and once IV.

The average length of the period is almost exactly 15 days, and this connects the shock felt in the west end of the Island 1872, Dec. 7th, 8 p.m., with this series; for the interval between this date and 1884 Sept. 6th, 9.57 p.m., is 4291.1 days, and this interval is also equal to 286 periods of 15.004 days each. The matter is interesting to me as it was the first shock I had ever felt, having arrived in Jamaica a few months previously. I was then at Content near Miles Town: there was a good deal of sound, and the house trembled for 8 or 10 seconds.

THE SILOAH EPICENTRE (S.).

Date.	Interval. Observed.	Period.	N.	Interval. Computed.	Diff. O—C.	Intensity.
	d.	d.		d.	d.	
1884 Sept. 6.9 ..	..	14.984	..	..	..	II.
" Nov. 20.9 ..	75.0	"	5	74.9	+0.1	I.
1885 Oct. 2.4 ..	390.5	"	26	389.6	+0.9	III.
" Dec. 14.8 ..	463.9	"	31	464.5	−0.6	I.
1886 Apr. 15.7 ..	585.8	"	39	584.4	+1.4	I.
" May 28.6 ..	628.7	"	42	629.3	−0.6	II.
" July 12.1 ..	673.2	"	45	674.3	−1.1	I.
" Nov. 10.7 ..	794.8	"	53	794.2	+0.6	I.
1888 Feb. 3.2 ..	1244.3	"	83	1243.7	+0.6	II.
" Apr. 16.1 ..	1317.2	"	88	1318.6	−1.4	I.
1890 Feb. 22.1 ..	1994.2	"	133	1992.9	+1.3	II.
1893 Dec. 17.2 ..	3388.3	"	226	3386.4	+1.9	II.
1894 Oct. 25.1 ..	3700.2	"	247	3701.0	−0.8	I.
1895 Oct. 3.1 ..	4043.2	"	270	4045.7	−2.5	I.
1896 Feb. 16.5 ..	4179.6	"	279	4180.5	−0.9	II.
1897 Apr. 12.9 ..	4601.0	"	307	4600.1	+0.9	II.
1899 June 14.2 ..	5393.3	"	360	5394.2	−0.9	II.
1899 June 14.2 ..	..	14.92	..	..	..	II.
1902 Feb. 23.6 ..	984.4	"	66	984.7	−0.3	II.
" Sept. 20.8 ..	1193.6	"	80	1193.6	0.0	II.
1903 Aug. 2.1 ..	1508.9	"	101	1506.9	+2.0	I.
" Aug. 13.4 ..	1520.2	"	102	1521.8	−1.6	I.
" Sept. 14.1 ..	1551.9	"	104	1551.7	+0.2	II.
1905 Jan. 27.6 ..	..	15.06	..	..	..	II.
1906 June 22.1 ..	510.5	"	34	512.0	−1.5	II.
1907 Nov. 20.0 ..	1026.4	"	68	1024.1	+2.3	II.
1908 Jan. 2.3 ..	1069.7	"	71	1069.3	+0.4	IV.
" Jan. 17.7 ..	1085.1	"	72	1084.3	+0.8	II.
" Apr. 17.4 ..	1175.8	"	78	1174.7	+1.1	I.
" Apr. 30.5 ..	1188.9	"	79	1189.7	−0.8	I.
" June 28.1 ..	1247.5	"	83	1249.9	−2.4	I.
" Aug. 1.2 ..	1281.6	"	85	1280.1	+1.5	I.
" Aug. 31.9 ..	1312.3	"	87	1310.2	+2.1	I.
" Sept. 29.0 ..	1340.4	"	89	1340.3	+0.1	I.
1909 Feb. 11.0 ..	1475.4	"	98	1475.9	−0.5	III.
" Feb. 27.2 ..	1491.6	"	99	1490.9	+0.7	I.
" June 26.9 ..	1611.3	"	107	1611.4	−0.1	I.
1909 Aug. 17.9 ..	..	15.06	..	..	..	I.
" Oct. 31.2 ..	74.3	"	5	75.3	−1.0	III.
" Dec. 16.6 ..	120.7	"	8	120.5	+0.2	I.
" Dec. 29.8 ..	133.9	"	9	135.5	−1.6	II.
1910 Aug. 12.1 ..	359.2	"	24	361.4	−2.2	III.
1911 Jan. 26.6 ..	526.7	"	35	527.1	−0.4	I.
" June 26.9 ..	678.0	"	45	677.7	+0.3	I.
" Sept. 22.6 ..	765.7	"	51	768.1	−2.4	I.
1912 Mar. 8.0 ..	933.1	"	62	933.7	−0.6	I.
1912 May 16.1 ..	..	14.9	..	..	..	III.
" Nov. 27.1 ..	195.0	"	13	193.7	+1.3	I.
1913 Mar. 24.2 ..	312.1	"	21	312.9	−0.8	I.

THE DARLISTON EPICENTRE.

About 20 miles further west we come to this epicentre having the shortest period of them all, namely, 10.8 days; the average difference between the observed and computed intervals is 0.8 day. But the average difference for (A) having the longest period of them all, namely, 30.5 days, is 1.0 day; so that there is no connection between the length of the period and the difference O—C.

THE DARLISTON EPICENTRE (D.).

Date.	Interval Observed.	Period.	N.	Interval Computed.	Diff. O—C.	Intensity.
	d.	d.		d.	d.	
1881 Oct. 14.9 ..	..	10.975	..	..	..	II.
" Dec. 8.8 ..	54.9	"	5	54.9	0.0	I.
1882 Jan. 22.2 ..	99.3	"	9	98.8	+0.5	II.
" Sept. 20.7 ..	340.8	"	31	340.2	+0.6	I.
1886 Feb. 9.7 ..	1579.8	"	144	1580.4	−0.6	III.
1889 Nov. 23.6 ..	2962.7	"	270	2963.2	−0.5	II.
1894 July 22.8 ..	4664.9	"	425	4664.4	+0.5	I.
" Nov. 19.7 ..	4784.8	"	436	4785.1	−0.3	II.
1895 July 9.2 ..	5016.3	"	457	5015.6	+0.7	I.
" Sept. 21.0 ..	5090.1	"	464	5092.4	−2.3	I.
1896 Jan. 2.8 ..	..	10.84	..	..	..	I.
" Dec. 24.9 ..	357.1	"	33	357.7	−0.6	I.
1898 July 10.9 ..	920.1	"	85	921.4	−1.3	II.
1900 June 7.3 ..	1616.5	"	149	1615.2	+1.3	I.
" Sept. 11.5 ..	1712.7	"	158	1712.7	0.0	I.
1902 Nov. 13.2 ..	2505.4	"	231	2504.0	+1.4	I.
" Nov. 22.1 ..	2514.3	"	232	2514.9	−0.6	I.
1903 Feb. 5.6 ..	2589.8	"	239	2590.8	−1.0	I.
1906 June 26.6 ..	3826.8	"	353	3826.5	+0.3	I.
" Nov. 24.1 ..	3977.3	"	367	3978.3	−1.0	I.
1907 Dec. 31.6 ..	4379.8	"	404	4379.4	+0.4	I.
1908 Jan. 21.4 ..	4400.6	"	406	4401.0	−0.4	I.
" Mar. 3.7 ..	4442.9	"	410	4444.4	−1.5	II.
" Mar. 24.9 ..	4464.1	"	412	4466.1	−2.0	I.
1908 May 26.8 ..	..	10.82	..	..	..	I.
1909 Jan. 7.6 ..	225.8	"	21	227.2	−1.4	II.
" Jan. 31.5 ..	249.7	"	23	248.9	+0.8	II.
" Mar. 16.3 ..	293.5	"	27	292.1	+1.4	I.
" May 19.3 ..	357.5	"	33	357.1	+0.4	II.
" Nov. 28.9 ..	551.1	"	51	551.8	−0.7	I.
1912 May 15.2 ..	1449.4	"	134	1449.9	−0.5	I.
1913 Sept. 25.6 ..	1947.8	"	180	1947.6	+0.2	I.
" Oct. 26.2 ..	1978.4	"	183	1980.1	−1.7	II.

THE CASCADE EPICENTRE.

This is the last of the epicentres; it is about 6 miles SE of Lucea; and the record of the shocks between 1907 and 1909 was greatly assisted by a seismometer established at Great Valley.

The details in this report are given in exactly the same form as in the last three reports; the day, commencing at midnight, is divided into tenths instead of hours for the more easy management of the length of the observed intervals; and in this connection the following table may be found useful.

DECIMALS OF A DAY.

	hr.	min.		hr.	min.	Decimal.
From	10	48 p.m.	to	1	12 a.m.	0.0
"	1	12 a.m.	"	3	36 "	0.1
"	3	36 "	"	6	0 "	0.2
"	6	0 "	"	8	24 "	0.3
"	8	24 "	"	10	48 "	0.4
"	10	48 "	"	1	12 p.m.	0.5
"	1	12 p.m.	"	3	36 "	0.6
"	3	36 "	"	6	0 "	0.7
"	6	0 "	"	8	24 "	0.8
"	8	24 "	"	10	48 "	0.9
"	10	48 "	"	1	12 a.m.	1.0

The following is the Jamaica Earthquake scale:—

	Horizontal Motion.
	In.
I. Light shock	0.003
II. Well-marked shock	0.010
III. Shock sufficient to make houses rock	0.032
IV. Shock sufficient to crack walls of houses	0.100
V Shock sufficient to throw down a few houses	0.316
VI. Shock sufficient to throw down almost all houses	1.000

THE CASCADE EPICENTRE (C.).

Date.	Interval Observed.	Period.	N.	Interval Computed.	Diff. O—C.	Intensity.
	d.	d.		d.	d.	
1882 May 5.0 ..	..	15.19	..	..	..	II.
1883 Feb. 1.9 ..	272.9	"	18	273 4	−0.5	I.
1886 Jan. 16.3 ..	1352.3	"	89	1351.9	+0.4	I.
" Nov. 15.1 ..	1655.1	"	109	1655.7	−0.6	I.
1887 Apr. 18.1 ..	1809.1	"	119	1807.6	+1.5	I
1888 Apr. 14.5 ..	2171.5	"	143	2172.2	−0.7	III.
1891 Apr. 27.3	3279.3	"	216	3281.0	−1.7	II.
1891 Apr. 27.3 ..	..	15.24	..	..	..	II.
1894 Aug. 31.1 ..	1221.8	"	80	1219.2	+2.6	II.
1895 Apr. 14.2 ..	1447.9	"	95	1447.8	+0.1	II.
" Apr. 29.5 ..	1463.2	"	96	1463.0	+0.2	I.
1896 Jan. 28.9 ..	1737.6	"	114	1737.4	+0.2	III.
" Feb. 12.9 ..	1752.6	"	115	1752.6	0.0	I.
1898 Dec. 14.4 ..	2788.1	"	183	2788.9	−0.8	II.
1898 Dec. 14.4 ..	..	15.142	..	..	..	II.
1901 Jan. 11.5 ..	758.1	"	50	757.1	+1.0	I.
1902 Sept. 21.8 ..	1376.4	"	91	1377.9	−1.5	I.
1907 Aug. 28.9 ..	3178.5	"	210	3179.8	−1.3	I.
" Sept. 29.1 ..	3209.7	"	212	3210.1	−0.4	I.
" Dec. 13.7 ..	3285.3	"	217	3285.8	−0.5	I.
1908 Jan. 14.0 ..	3316.6	"	219	3316.1	+0.5	I.
1908 Jan. 14.0 ..	..	15.60	..	..	..	I.
" Mar. 31.9 ..	77.9	"	5	78.0	−0.1	I.
" June 2.2 ..	140.2	"	9	140.4	−0.2	I.
" Aug. 3.6 ..	202.6	"	13	202.8	−0.2	II.
" Oct. 19.6 ..	279.6	"	18	280.8	−1.2	I.
1909 Jan. 23.4 ..	375.4	"	24	374.4	+1.0	I.
" July 31.0 ..	564.0	"	36	561.6	+2.4	I.
1911 Mar. 24.6 ..	1165.6	"	76	1164.0	+1.6	II.

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No. 424.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

NOVEMBER, 1913.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.938	29.893	78.7	81.6	83.3	74.2	9.1	85.5	7	66.0	10	19.5
Kingston ..	24	29.919	29.863	72.8	83.3	88.1	71.2	16.9	90.2	4	68.2	30	22.0
Negril Point Light House ..	33	29.935	29.890	76.1	82.6	85.5	71.6	13 9	88.5	19	68.2	22	20.3
Castleton Gardens ..	496	..	..	72.0	78.3	83.6	66.6	17.0	90	1*	61	30	29
Hope Gardens† ..	668	29.937	29.849	70.6	82.6	86.0	67.6	18.4	91	18*	65	29*	26
Stony Hill Indus. School ..	1,400	..	..	70.2	77.6	80.1	65.4	14.7	87	19	63	12*	24
Hill Gardens ..	4,900	25.289	25.216	..	..	67.4	55.5	11.9	71	19*	53	30	18

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction from and miles per hour.				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	73.3	84	74.3	78	6.13	322	ENE	11	ENE	14	1.5	2.4	2.6	1.5	1.9	2.5
Kingston ..	24	69.3	89	72.3	70	1.68	136	N	4	SE	9	1.4	1.3	3.1	4.0	1.8	1.9
Negril Point Light House‡ ..	33	69.0	78	72.3	71	2.05	233	E	10	ESE	11	2.0	2.0	2.5	2.3	4.8	1 6
Castleton Gardens ..	496	66.0	81	71.2	79	32.12	..	..	..	..	..	..	..	..	..	..	
Hope Gardens ..	668	64.5	75	65.4	55	5.46	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	67.9	91	70.7	79	7.64	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	60.0	89	60.4	89	25.78	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m. NE 9.4

RAINFALL FOR NOVEMBER, 1913.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	NOVEMBER, 1913. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	...	...	...	...	1.
Ecclesdown ...	20.69	2.12	3	26	..
Spring Valley, Portland .	13.06	2.44	2	15	.
Bath ...	5.95	2.25	2	23	12.95
Boston ...	2.90	1.00	3	4	13.51
Moore Town ...	22.30	...	...	...	34.15
Port Antonio ...	7.86	1.92	2	18	16.39
Fellowship ...	18.36	2.65	16	24	27.19
Windsor, Portland ...	...	...	...	...	...
Johnson River Bridge ...	6.34	1.26	13	16	6.70
Shrewsbury ...	...	...	...	...	...
Cedar Valley, St. Thos. ...	7.70	1.73	13	11	13.09
Hope Bay ...	7.85	1.45	10	22	..
Moy Hall, St. Thos. ...	14.91	2.50	12	14	13.14
Lennox ...	10.70	2.10	10	9	..
Hill Gardens ...	25.78	...	...	...	14.71
Buff Bay ...	9.55	1.80	11	14	16.12
Vinery ...	...	...	...	...	...
Windsor Castle, Port. ...	...	...	...	...	..
Greenvale, Portland ...	44.33	5.90	14	25	...
Mt. Holstein ...	35.46	6.02	13	29	26.11
Irish Town ...	8.24	1.67	12	10	...
Rose Hill ...	21.86	6.28	12	13	...
Hardwar Gap ...	21.28	...	...	10	...
Stony Hill Ind. School ...	7.64	2.45	13	15	7.14
Castleton Gardens ...	32.12	...	...	...	14.42
Lawrence Tavern ...	14.47	4.00	14	13	...
Cedar Valley, Red Hills ...	5.40	1.50	9	11	...
Carew Castle ...	12.21	3.41	13	12	9.36
Agualta Vale ...	9.04	2.15	6	20	...
Water Valley ...	8.26	1.68	6	19	10.01
Albany, Ry. Station ..	11.13	2.25	10	19	...
Platfield ...	14.29	3.40	14	25	...
Richmond, St. Mary ..	12.61	3.30	11	19	11.65
Hampstead, St. Mary ...	20.40	4.55	11	24	...
Troja ...	18.42	3.60	14	18	...
Lucky Hill ...	13.55	2.80	10	18	...
Rio Hoe ...	13.57	4.38	11	24	9.40
Unity Valley ...	13.73	3.55	11	25	9.01
Moneague ...	14.43	3.40	11	24	9.90
Claremont ...	17.30	3.04	11	18	10.46
Albion, St. Ann ...	18.05	4.49	11	22	9.74
Averham Park ...	18.31	3.10	10	19	11.85
Means ...	15.35	...	...	...	...

NORTHERN DIVISION.	NOVEMBER, 1913. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	12.12	6.38	10	14	10.69
Ocho Rios ...	13.78	6.87	10	14	7.73
Bogue, Ocho Rios ...	16.65	8.12	10	18	...
Drax Hall ...	12.40	5.00	10	15	10.04
St. Ann's Bay ...	11.74	6.02	10	19	9.00
Seville ...	12.93	6.82	10	18	9.80
Richmond Estate ...	10.56	3.50	10	16	9.42
Llandovery ...	13.96	6.40	10	16	9.16
Runaway Bay ...	8.20	2.35	10	12	...
Brown's Town ...	16.95	5.22	10	13	10.58
Alexandria ...	8.20	2.35	11	10	...
Chewmagna, St. Ann ...	8.85	2.45	11	15	6.91
Home Castle ...	21.42	7.70	10	16	7.35
Richmond Pen ...	15.25	3.15	11	10	5.99
Mahogany Hall ...	21.58	11.00	10	12	7.14
Barnstaple ...	18.36	6.00	10	13	...
Brampton Bryan ...	12.48	4.14	10	12	5.72
Bryan Castle ...	8.03	3.15	10	15	6.40
Braco ...	7.95	3.40	10	12	5 88
Arcadia ...	10.58	3.67	10	13	6.47
Lancaster ...	8.30	3.50	10	6	...
Harmony Hall ...	9.35	4.46	10	10	...
Vale Royal ...	12.40	3.48	10	14	7.30
Colchis Pen ...	10.77	3.77	10	15	5.81
Swanswick ...	8.73	2.31	10	14	...
Georgia ...	7.83	2.03	11	15	5.84
Long Pond ...	8.69	2.23	11	13	5.52
Hyde Hall ...	8.60	2.03	10	11	5.14
Steelfield ...	8.54	2.30	11	11	5.90
Etingdon ...	6.54	1.75	10	18	5.37
Oxford ...	...	...	...	...	...
Cambridge, Trelawny ...	...	...	...	...	...
Lottery ...	7.90	2.35	10	13	5.38
Falmouth ...	...	...	...	...	...
Florence Hall ...	6.30	3.00	11	11	...
Kent ...	...	...	...	...	...
Gales Valley ...	11.39	2.90	10	10	4.84
Canaan ...	11.76	3.35	10	16	5.03
Content ...	13.45	4.25	11	13	...
Bellfield ...	...	...	.	...	...
Hampden ...	...	...	.	..	...
Moor Park ...	11.06	3.00	11	10	...
Guilsbro ...	11.40	3.50	12	17	5.78
Rose Hall ...	14.05	5.00	11	8	...
Montego Bay ...	...	...	...	...	...
Catherine Hall ...	11.48	6.20	11	9	4.58
Retirement ...	14.37	5.90	11	22	...
King Gate ...	...	...	..	...	...
Round Hill ...	...	...		...	...
Blue Hole ...	7.72	2.72	14	5	...
Haughton Court ...	4.50	1.50	14	8	...
Lucea ...	6.76	1.43	14	11	5.71
Green Island Police St. ...	5.44	2.51	4	9	..
CENTRAL SUB-DIVISION.					
Headworks, Rio Cobre ...	2.92	0.65	18	9	4.74
Linstead ...	8.70	2.55	10	12	5.92
Berkshire Hall ...	9.87	2.53	14	19	...
Point Hill ...	13.36	2.56	14	15	10.16
Brown's Hall .	6.83	1.86	10	15	8 13
Worthy Park ...	4.38	1.60	10	9	4.18
Chapelton ...	5.19	2.04	24	13	4.49
Danks Works ...	2.31	0.70	4	12	4.99
Savoy House ...	2.55	0.78	4	14	5.62
Trout Hall ...	2.79	1.30	24	7	..
Cave Valley ..	..	...	..	..	..
Greenock ...	..	...	...	.	...
Means ...	10.29	...	...	...	...

West-Central Division.	November, 1913. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Whitney ...	...	...	...	...	...
Mocho, Clarendon ...	1.96	1.02	3	4	...
Baillieston ...	1.61	0.60	12	6	5.25
Brokenhurst ...	5.00	2.80	24	7	6.21
Christiana ...	4.14	1.16	24	16	6.82
Chudleigh ...	4.90	1.84	7	14	...
Shooter's Hill ...	4.39	1.77	7	12	...
Spitzbergen ...	3.90	1.30	7	14	...
Kendal, Manchester ...	2.97	1.00	5	7	5.99
Marshalls Pen ...	..	...	..	...	...
Mandeville ...	2.84	0.61	7	13	6.29
Carlton, Mandeville ...	2.91	0.76	24	15	...
The Hill ...	3.58	1.48	21	9	...
Fairfield, Manchester ...	3.66	1.64	7	13	6.46
Ulster Spring ...	9.12	2.10	10	11	6.19
Freeman's Hall ...	7.23	2.73	9	9	..
Albert Town ...	7.17	2.10	10	10	...
Lowe River ...	9.79	1.50	9	10	...
Troy ...	3.40	0.75	10	8	6.46
Windsor Pen, Trel. ...	11.98	3.80	10	15	6.03
Wallingford ...	3.05	1.12	6	12	...
Balaclava Police Station ...	3.53	1.55	7	11	5.91
Siloah ...	6.07	2.30	5	9	...
Appleton Estate ...	7.20	2.67	7	14	6.04
Maggotty ...	6.33	2.30	7	11	6.30
Butlers ...	9.65	2.80	7	13	...
Deeside ..	14.78	2.02	11	16	...
Spring Vale ...	13.62	3.40	10	12	6.08
Garland ...	...	...	...	..	...
Mocho, Catadupa ...	...	...	...	...	...
Springfield, St. Elizabeth	2.91	1.70	7	9	...
Catadupa Rly. Station ...	5.39	2.40	8	9	...
Kempshot ...	12.95	4.50	10	17	6.18
Cambridge, St. James ...	7.42	2.10	2	14	..
Hazelymph ...	...	...	...	...	...
New Market, Police St. ...	4.18	1.85	7	9	...
The Bog, New Market ...	6.40	1.76	3	11	...
Kew Park ...	4.82	1.00	10	11	5.52
Montpelier ...	...	.	...	...	..
Knockalva .	8.32	2.72	10	9	...
Ramble ...	9.21	3.50	10	10	...
Petersville ...	6.80	2.55	3	7	6.49
Darliston ...	4.42	2.30	7	12	7.48
Whithorn ...	8.86	1.30	6	13	6.92
Water Works ...	8.00	2.20	6	11	...
Great Valley, Han. ...	9.01	2.30	11	11	...
Prospect Park ...	5.58	2.02	3	8	...
Fontabelle, Westm. ...	1.68	0.41	12	8	...
Belleisle ...	1.33	0.45	1	7	3.36
Morgan's Bridge ...	1.51	0.50	3	5	5.30
King's Vale Police St. ...	3.98	1.17	4	10	5.46
Means ...	5.71	...	...	...	...

Southern Division.	November, 1913. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	6.13	1.35	3	17	6.90
Pleasant Hill ...	8.71	3.73	1	11	...
East Prospect ...	6.52	1.40	1	18	...
Morant Bay ...	3.37	0.68	2	12	6.44
Easington ...	2.70	0.77	13	9	5.35
Bull Bay ...	1.28	0.56	12	4	...
Gordon Town ...	7.83	1.40	12	13	...
Hope Gardens ...	5.46	...	...	...	6.35
King's House Gardens ...	4.51	...	...	...	3.31
Halfway Tree ...	3.85	2.00	8	3	...
Lunatic Asylum ...	2.31	0.92	9	8	3.57
Parade Gardens ...	1.76	0.73	9	8	...
Kingston S. Camp Road ...	2.55	1.35	9	7	..
" P. W. Office ..	1.68	0.82	9	6	3.00
Plumb Point L. H. ...	0.93	0.25	20	8	3.32
Clifton Pen ...	1.67	0.52	12	6	...
Quarantine Station ...	0.61	0.32	12	4	...
Spanish Town ...	3.50	2.20	21	4	3.56
Hog Hole Pen ...	2.99	0.88	9	7	4.34
Hartlands ...	1.04	0.75	9	3	...
Belmont, Guanaboa Vale	4.37	1.10	24	13	...
Old Harbour ...	2.63	0.75	20	6	3.60
May Pen ...	2.69	1.18	10	4	4.51
Dunkley's, Vere ...	1.95	0.90	14	6	3.92
Dry River " ...	2.09	0.90	14	9	...
Denbigh ...	...	...	...	...	...
Toll Gate ...	1.52	0.47	17	6	...
Woodleigh ...	...	...	...	...	...
New Yarmouth ..	1.64	0.73	14	6	2.66
Exeter, Vere ...	1.07	0.36	9	6	...
Rhymesbury ...	2.48	0.88	14	10	3.58
Milk River ...	.	.	...	..	...
Clarendon Pk. Ry. St. ...	2.96	0.71	20	11	..
Victoria Town ...	1.72	0.54	1	5	4.53
Hog Hole, S. Manch, ...	2.67	0.70	14	7	...
Stone's Hope ...	3.93	0.87	24	8	5.01
Newport, Manchester ...	2.89	1.57	24	8	6.29
Great Valley, Man. ...	2.00	0.85	14	10	4.24
Alligator Pond ...	2.26	0.77	14	4	2.97
Southfield, St. Elizabeth ...	2.25	0.56	14	10	...
Lititz ...	2.87	1.70	24	7	...
Long Hill ...	3.41	1.21	17	9	5.86
Torrington ...	4.05	1.03	20	6	6.99
Bethlehem, St. Eliz. ...	5.81	1.37	18	8	7.32
Santa Cruz ...	2.25	1.08	20	5	5.89
Pedro Plains Police St. ...	1.96	0.60	17	10	4.01
Black River ...	1.45	0.37	24	9	4.53
Font Hill ...	4.55	1.45	3	7	5.32
Mount Edgecombe ...	5.07	2.27	3	14	5.00
Bluefields ...	4.57	2.25	2	6	...
Sweet River ...	7.16	1.42	7	11	3.80
Windsor, Sav.-la-mar ...	2.64	0.88	2	9	3.64
Orchard ...	2.29	0.68	2	9	...
Sav.-la-mar ...	5.18	1.95	1	6	3.10
Retreat ...	3.71	0.95	21	9	4.79
White Hall ...	2.71	1.84	2	3	..
Negril Point L.H. ...	2.05	0.47	14	13	3.21
Means ...	3.24	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

—	November.	
	1913.	Average.
	In.	In.
North-Eastern Division ...	15.35	13.54
Northern " ...	10.29	5.91
West-Central " ...	5.71	5.74
Southern " ...	3.24	4.56
The Island ...	8.65	7.44

The rains fell all along the north side of the Island; as usual they were heaviest in the N.E. division; but they were very irregular; Greenvale had 44 inches, Mt. Holstein had 35 inches, and Castleton had 32 inches, while other places had only 6 or 7 inches. They were therefore "winter" rains and the rainfall depended chiefly on elevation and exposure to the N.E. winds.

Rainfall at Grand Cayman, October, 1913.	Total Fall.	Greatest fall. Amount.	Greatest fall. Date.	No. of days on which 0.01 or more fell.
	In.	In.		
East End ...	..	..	..	..
Bodden Town ...	1.74	0.70	29	4
George Town ...	..	..	..	..
November, 1913.				
East End ...	...	...	...	...
Bodden Town ...	2.28	1.09	3	7
George Town ...	...	...	...	...

Shocks of Earthquake in November, 1913.

Date.	Mean time.	Intensity.	Notes: where felt, etc.
	hr. min.		
21	11 52 a.m.	II	Porus.
"	11 54 "	III	Porus; Mandeville.
		...	

Plumb Point Light House—

Average No. of Miles of wind per diem	122
Greatest on the 5th	225
Least on the 18th	56

The Weather Office,
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

RESULTS OBTAINED BY GROUPING THE SHOCKS UNDER THEIR RESPECTIVE EPICENTRES.

In the last three Weather Reports most of the shocks recorded in the registers were grouped under their respective Epicentres; a table of residual shocks was then drawn up, which was carefully revised, with the result that there are several *addenda* and *corrigenda* to the groups already formed.

Moreover, the question of bracketing together two or more shocks in the original registers cannot be easily disposed of; when the intervals between the shocks at the same place or in the same locality are small, the shocks should of course be bracketed together for our present purpose; but it will be found that a certain principle leads us from intervals of 12 hours to intervals of 24 hours, and even of 36 hours; so it becomes necessary to draw up a list of the shocks which have been so bracketed together.

Under these circumstances it will be better to proceed assuming that the bracketing in the original registers has been made according to the list given below in Table III, and that the *addenda* and *corrigenda* to the last three Weather Reports have been made according to the lists at the end of the present article.

We thus get Table I from the corrected groups:—

TABLE I.

Epicentre.	Number of Shocks.							Total activity.	Activity of each shock.	Period.	Period / activity.	Average O—C
	I	II	III	IV	V	VI	Total.					
										d.		d.
B ..	49	7	4	1	..	..	61	87	1.4	14.3	10.2	1.1
P ..	69	15	5	1	..	..	90	127	1.4	12.8	9.2	1.2
A ..	5	..	1	2	..	..	8	25	3.1	30.5	9.8	1.0
H ..	25	8	9	..	..	1	43	109	2.5	21.2	8.5	1.0
Me ..	15	6	..	..	..	..	21	27	1.3	13.5	10.4	1.2
Mw ..	12	5	..	..	..	..	17	22	1.3	13.3	10.2	0.8
S ..	26	16	5	1	..	..	48	86	1.8	15.0	8.3	1.1
D ..	22	10	1	..	..	..	33	46	1.4	10.9	7.8	0.8
C ..	17	7	2	..	..	..	26	39	1.5	15.3	10.2	0.8
ums ..	240	74	27	5	0	1	347	Means	1.7	16.2	9.4	1.0

In combining shocks of different intensity so as to obtain the total "activity," we have to consider the average range of shocks of I, II, &c. intensity. Thus a II shock will be felt at twice the distance of a I shock; a III shock will be felt at twice the distance of a II shock; and so on, always doubling (W. R. No. 337, p. 19).

Now it was shown that the great Earthquake of 1907 made the ratio rather larger than 2 (W. R. No. 365, p. 21); but it will be found that the last column but one in the above table suggests that it would be rather less; we shall therefore adopt 2 to be the ratio as before.

The total activity being thus found, the average activity, or intensity, of each shock is found by merely dividing the total by the number of shocks.

In the last column but one, where the period in days has been divided by the average intensity of each shock, closer agreement can be made by slightly reducing the factor for activity, as already stated; but the agreement is close enough to show that for each group the length of the period and average intensity of each shock, increase or decrease together; and at present we can only hope for such general results.

(B) and (P) are apparently "twins" as well as (Me) and Mw); they are very near each other, and have nearly the same period, the same sort of shocks, and the same intensity of each shock.

The average difference O—C has of course been taken without regard to sign, and is nearly the same for all the epicentres; this renders their comparison with other varying functions unnecessary.

When the groups were formed, if any shock made the difference O—C larger than 3, that shock was rejected*, unless indeed it was found to be an epoch or starting point of a new series. The following table gives a list of all these residuals, which cannot be referred to any epicentre without exceeding that limit.

Let us take the second as an example: it was a well-marked shock at Annotto Bay; if we attempt to connect it with the (A) series, O—C will be 11 days; if we attempt to connect it with the (B) series, O—C will be 6 days; moreover in the latter case it should have been more generally felt.

For about 30 years before the great Earthquake of 1907 there were only 10 of these shocks scattered all over the Island; since the Earthquake of 1907 these shocks have been much more frequent, especially at Mt. Holstein on the Blue Mountain range. If we were to put aside the 17 shocks at this place, as marking an unsettled condition of a particular locality, we have 28 of these shocks among a total of 338†, scattered all over the Island. There are therefore 8 per cent. of the shocks which are apparently unconnected with the period of any epicentre under fairly settled conditions.

Table II.

Shocks unconnected with the period of any Epicentre.

Date.	Intensity.	Where felt.
1886—Feb. 20	I	Kingston, &c.
1887—Nov. 16	II	Annotto Bay
1889—Mar. 27	II	Morant Point
1890—Nov. 11	I	Shortwood
1891—May 20	I	Bethel Town
1893—Feb. 19	I	Kingston
1894—Mar. 20	I	Windsor Pen
1895—Oct. 2	I	Abbey
1904—Nov. 25	I	Middle of Island
1906—Nov. 17	I	Kings Valley
1907—Oct. 13	I	Mt. Holstein
" Nov. 23	I	Chapelton
" Nov. 25	I	"
" Dec. 4	I	Grange Hill
" Dec. 7	I	Kingston
" Dec. 9	I	"
1908—Feb. 4	II	Negril
" Feb. 12	II	Halfway Tree
" Feb. 24	II	Mt. Holstein
" Mar. 5	I	Moy Hall
" Mar. 19	I	Mt. Holstein
" Mar. 21	I	Negril
" Apr. 19	I	Mt. Holstein
1908—Apr. 19	I	Kings Valley
" Apr. 30	I	Mt. Holstein
" May 2	I	"
" Aug. 25	I	"
" Oct. 12	I	"
" Oct. 26	I	"
" Nov. 6	II	"
" Dec. 21	I	"
1909—May 23	I	Kings Valley
" June 26	I	Kingston
1910—Feb. 19	I	Mt. Holstein
" June 1	I	"
" Dec. 12	I	"
1911—Mar. 8	I	"
" Mar. 25	I	Halfway Tree
" Apr. 16	I	Mt. Holstein
" Oct. 6	I	Kingston
1912—Jan. 6	I	Richmond
" Mar. 24	I	Yallahs
" Mar. 28	I	Siloah
" Nov. 6	I	Kingston
1913—Apr. 27	II	Mt. Holstein

These facts go to prove that shocks may occur apart from the forces which work more or less regularly below the epicentres in Jamaica.

We have now to consider the shocks which occurred in the same locality, with small intervals of time between them, so that they should be bracketed together for our present purpose as a single shock occurring at the mean of the times within the bracket. The following table requires no explanation. It will be noticed that as many as 7 out of the 54 bracketed shocks are enlisted in Table II; so that to use or more shocks about the same time does not give greater accuracy to O—C, but rather the opposite.

* (P) 1910 Feb. 1 is 3.1, due to some slight change after the groups were formed.
† 347 minus 9 included from among the after-shocks.

TABLE III.

Shocks bracketed together.

Epicentre.	Date.		Interval.	Intensity.	Notes: where felt, &c.
			d.		
B	1881 Jan.	7.8	0.6	I	Kingston and east of Island.
	"	8.4		I	Kingston.
P ..	1881 Aug.	12.2	1.6	II	"
	"	13.8		I	"
P ..	1882 Dec.	27.1	0.5	I	Abbey.
	"	27.6		I	Kingston.
P	1886 Jan.	21.0	0.5	I	Halberstadt.
	"	21.5		I	Abbey.
B ..	1886 May	12.5	0.1	III	Halberstadt.
	"	12.6		II	"
C ..	1886 Nov.	15.1	0.0	I	Potsdam.
	"	15.1		I	"
P	1889 Sept	7.2	0.2	I	Abbey.
	"	7.4		I	Kingston.
B	1891 Jan.	27.3	1.0	I	"
	"	28.3		I	Abbey.
H	1891 Feb.	16.1	1.0	I	Kingston.
	"	17.1		I	Abbey.
H	1892 Sept.	29.2	0.5	I	"
	"	29.7		I	Kingston.
	"	29.8	0.1	I	Abbey.
B ..	1893 June	2.8	1.6	I	Kingston, &c.
	"	4.4		II	"
C	1895 Apr.	28.8	1.4	I	West end: strongest at Round Hill.
	"	30.2		I	Whole Island: strongest at Potsdam.
?	1895 Oct.	1.0	0.1	I	Abbey.
	"	1.1	0.5	I	"
	"	1.6	1.4	I	"
	"	3.0		I	Yallah's Bay.
P	1900 Nov.	6.4	0.5	I	Castleton.
	"	6.9		I	" Kingston.

TABLE III, *continued.*

Shocks racketed together.

Epicentre.	Date.		Interval.	Intensity.	Notes: where felt, &c.
			d.		
S ..	1902 Feb.	23.3	0.6	II	Cinnamon Hill; west end of Island.
	"	23.9		I	"
C ..	1902 Sept.	21.8	0.0	I	Brownsville.
	"	21.8		I	Windsor Pen.
P ..	1906 June	22.6	0.0	II	Kingston.
	"	22.6		II	"
Mw ..	1907 Dec.	2.0	0.2	I	Browns Town.
	"	2.2		II	Chapelton: Browns Town.
P ..	1907 Dec.	4.9	0.0	I	Kingston harbour.
	"	4.9		I	"
?	1907 Dec.	9.6	0.5	I	Mt. Holstein.
	"	10.1		I	Kingston, "early."
D ..	1907 Dec.	31.4	0.3	I	Kings Valley.
	"	31.7		I	Brownsville.
Mw ..	1908 Jan.	10.6	1.0	I	Chapelton.
	"	11.6	1.1	II	Unity Valley.
	"	12.7		I	Chapelton.
P ..	1908 Jan.	22.0	0.9	I	Mt. Holstein.
	"	22.9		I	Kingston.
ME ..	1908 Feb.	1.9	0.2	I	Kingston, Savoy.
	"	2.1		I	Savoy, "early"
? ..	1908 Feb.	12.0	0.1	II	Halfway Tree.
	"	12.1		I	"
? ..	1908 Feb.	23.8	0.7	I	Mt. Holstein.
	"	24.5		II	"
D ..	1908 Mar.	3.7	0.0		Kings Valley: sound.
	"	3.7		II	"
? ..	1908 Mar.	19.1	0.9	I	Mt. Holstein.
	"	20.0		I	"
S ..	1908 Apr.	30.5	0.0	I	Siloah.
	"	30.5		I	"

TABLE III, *continued.*

Shocks bracketed together.

Epicentre.	Date.		Interval.	Intensity.	Notes: where felt &c.
			d.		
P ..	1908 Sept.	14.2	0.1	I	Moy Hall: Mt. Holstein: Pt. Antonio.
	"	14.3		II	Mt. Holstein: Port Antonio.
S ..	1908 Sept.	28.9	0.3	I	Crooked River.
	"	29.2		II	Albion.
ME ..	1909 Jan.	2.5	0.1	I	Savoy
	"	2.6		I	"
D ..	1909 Jan.	30.6	0.9	I	Kings Valley.
	"	31.5	0.4	II	Brownsville, Great Valley.
	"	31.9	0.4	I	Grange Hill.
	Feb.	1.3		I	Great Valley.
Mw	1909 Jan.	31.5	0.7	I	Unity Valley.
	Feb.	1.2		III	Clarendon: Mandeville.
B	1909 Mar.	7.1	0.3	II	Halfway Tree: Mt. Holstein.
	"	7.4		I	Mt. Holstein.
D ..	1909 Mar.	16.0	0.6	I	Great Valley-: "night."
	"	16.6		I	"
C ..	1909 July	31.0	0.0	I	Negril.
	"	31.0		I	Great Valley, "about midnight."
P ..	1909 Aug.	29.7	0.8	I	Mt. Holstein.
	"	30.5		I	Gordon Town.
S ..	1909 Oct.	31.2	0.5	III	Siloah, &c.
	"	31.7		I	"
H ..	1910 July	24.9	1.3	I	Halfway Tree.
	"	26.2		I	Mt. Holstein
S ..	1910 Aug.	12.0	0.1	I	Black River.
	"	12.1		III	Siloah: Blac River, &c.
B ..	1910 Dec.	8.0	1.0	I	Kingston: Mt. Holstein.
	"	9.0		I	" "
C ..	1911 Mar.	24.1	1.0	I	Siloah.
	"	25.1		II	Great Valley.
P ..	1911 Apr.	10.9	0.2	II	Mt. Holstein.
	"	11.1		?	"

TABLE I I *continued.*

Stock bracketed together.

Epicentre.	Date.		Interval.	Intensity.	Notes: where felt &c
			d.		
B ..	1911 July	7.0	1.6	I	Mt. Holstein
	1911 "	8.6		I	"
	1911 "	8.7	0.1	I	"
P ..	1911 July	13.7	1.4	I	"
	1911 "	15.1		I	"
B ..	1911 Dec.	13.2	0.5	I	Kingston: Mt. Holstein.
	1911 "	13.7		I	" "
? ..	1912 Jan.	6.3	0.1	I	Hampstead: Richmond.
	1912 "	6.4		I	" "
ME ..	1912 Jan.	10.7	0.0	II	Highgate.
	1912 "	10.7		I	Richmond: Port Maria.
H	1912 Mar.	28.0	0.0	I	Mt. Holstein.
	1912 "	28.0		I	Kingston.
? ..	1912 Mar.	28.0	0.0	I	Siloah.
	1912 "	28.0		I	Mt. Edegcombe.
S ..	1912 May	16.1	0.0	I	Lititz, &c.
	1912 "	16.1		III	Siloah, &c.
H ..	1912 Sept.	14.0	0.0	I	Kingston.
	1912 "	14.0		II	Port Antonio: Mt. Holstein.
B ..	1912 Dec.	23.1	0.0	I	Kingston.
	1912 "	23.1		II	Mt. Holstein.

The following table shows how often the intervals of a day 0.0, 0.1, &c., occur.

Interval.		No.	
d.			
0.0		13	
0.1		9	26
0.2		4	
0.3		3	3
0.4		2	
0.5		8	13
0.6		3	
0.7		2	3
0.8		1	

(*continued*).

Interval.		No.	
d.			
0.9		3	
1.0		5	9
1.1		1	
1.2		0	
1.3		1	1
1.4		3	
1.5		0	6
1.6		3	
		61	

Omitting the 26 very small intervals for which no reason can be assigned, we notice that the rest are chiefly grouped about the intervals of 12 hrs., 24 hrs, and 36 hrs. Indeed there are 28 of these intervals as against the 7 remaining intervals. So that unless shocks in the same locality succeed each other within 4 or 5 hours, they seem to fall under some semi-diurnal influence.*

But if we glance through the registers we see that shocks occur at nearly the same times but at *different* epicentres, and it makes no difference whether the epicentres are close together or far apart. How far does this principle affect these shocks? The following table was drawn up to answer this question.

TABLE IV.

Shocks at nearly the same times but at diff rent epicentres.

Epicentre.	Date.		Interval.	Intensity.	Notes: where felt, &c.
B ..	1882—Dec.	25.9	1.4	II	Abbey.
P ..	" "	27.3		I	"
B ..	1884—Jan.	14.4	0.2	I	Kingston.
H ..	" "	14.6		III	Whole Island.
P ..	1886—Jan.	21.5	1.5	I	Halberstadt.
H	" "	23.0		I	"
Mw	1895—Feb.	11.7	1.0	I	Albion
B ..	" "	12.7		I	Shortwood.
? ..	1895—Oct.	1.7	1.4	I	Abbey.
S	" "	3.1		I	Albion.
S	1896—Feb.	16.5	1.6	II	Whole Island.
Mw	" "	18.1		II	Moneague.
S ..	1902—Sept.	20.8	1.0	II	West of Island.
C	" "	21.8		I	Brownsville.
S ..	1903—Aug.	2.1	1.0	I	Little River.
Me ..	" "	3.1		I	Unity Valley.
S ..	1906—June	22.1	0.5	II	" to Windsor Pen.
P	" "	22.6		II	Kingston.

* It may be here noticed that the tides of the Caribbean Sea are very small, so that oceanic tides can have no effect.

TABLE IV, *continued.*

Shocks at nearly the same times but at different epicentres.

Epicentre.	Date.		Interval.	Intensity.	Notes: where felt, & .
D ..	1906—Nov.	24.1		I	Bluefields.
			1.0		
ME	" "	25.1		I	Windsor Pen.
? ..	1907—Dec.	4.6		I	Grange Hill.
			0.3		
P ..	" "	4.9		I	Kingston harbour.
			0.5		
B ..	" "	5.1		I	Mt. Holstein.
? ..	1907—Dec.	9.8		I	"
			1.4		
Mw ..	" "	11.2		I	Chapelton.
C ..	1907—Dec.	13.7		I	Kings Valley.
			1.5		
P ..	" "	15.2		I	Kingston.
B ..	1908—Jan.	16.3		I	Mt. Holstein.
			1.5		
S ..	" "	17.8		II	Fontabelle.
ME ..	1908—Jan.	19.9		I	Chapelton.
			1.5		
D ..	" "	21.4		I	Negril.
			1.0		
P ..	" "	22.4		I	Kingston.
Mw	1908—Feb.	6.5		II	Denbigh, Danks, &c.
			1.0		
P ..	" "	7.5		IV	Golden Grove, Bath, &c.
P ..	1908—Mar.	2.6		II	Mt. Holstein, &c.
			1.1		
D ..	" "	3.7		II	Kings Valley.
			1.4		
?	" "	5.1		I	Moy Hall.
P ..	1908—Mar.	29.0		I	Kingston, &c.
			0.1		
Mw	" "	29.1		I	Chapelton.
? ..	1908—Apr.	30.4		I	Mt. Holstein.
			0.1		
S ..	" "	30.5		I	Siloah.
P ..	1908—June	27.7		I	Kingston.
			0.4		
S ..	" "	28.1		I	Windsor Pen.
B ..	1908—Aug.	3.1		I	Mt. Holstein.
			0.5		
C	" "	3.6		II	Great Valley.
H	1908—Aug.	30.2		I	Kingston.
			1.7		
S	" "	31.9		I	Siloah.
H ..	1909—Jan.	2.4		I	East end of Island.
			0.2		
ME ..	" "	2.6		I	Savoy.
ME ..	1909—Jan.	30.3		I	Unity Valley.
			1.3		
D ..	" "	31.6		II	Grange Hill, &c.
			1.5		
Mw	" "	31.8		I	Unity Valley; Clarendon, &c.

TABLE IV *continued*

Shocks at nea ly the same times but at different epicentres.

Epicentre.	Date.	Interval.	Intensity.	Notes: where felt, &c.
H ..	1909—Feb. 10.1	0.9	I	Halfway Tree .
S ..	" " 11.0		III	Siloah, &c.
H ..	1909—Mar. 6.1	1.1	I	Kingston, &c.
B ..	" " 7.2		II	Halfway Tree, &c.
S ..	1909—June 26.9	0.0	I	Siloah.
? ..	" " 26.9		I	Kingston.
P ..	1909—Sept. 8.8	0.5	I	Mt. Holstein.
B ..	" " 9.3		I	"
C ..	1911—Mar. 24.6	1.2	II	Great Valley; Siloah.
? ..	" " 25.8		I	Halfway Tree.
P ..	1911—Apr. 11.0	1.7	II	Mt. Holstein.
B ..	" " 12.7		?	"
S ..	1912—Mar. 8.0	0.0	I	Siloah; Montego Bay, &c.
ME ..	" " 8.0		II	Glengoffe.
H ..	1912—Mar. 28.0	0.0	I	Kingston.
?	" " 28.0		I	Mt. Edgecombe.
D ..	1912—May 15.2	0.9	I	Windsor Pen; S.W. of Island.
S ..	" " 16.1		III	Siloah, &c.

The following table shows how often the intervals of a day 0.0, 0.1, &c., occur.

Interval.	No	
d.		
0.0	3	
0.1	2	7
0.2	2	
0.3	1	1
0.4	1	
0.5	4	4
0.6	0	
0.7	0	0
0.8	0	
0.9	2	
1.0	6	10
1.1	2	

(*continued.*)

Interval.	No.	
d.		
1.2	1	
1.3	1	2
1.4	4	
1.5	5	10
1.6	1	
1.7	2	2
	37	

So that the tendency of these shocks to follow after 24 hrs. and 36 hrs. is more strongly marked than among the bracketed shocks.

And among the 33 pairs, or groups of three, there are as many as 6 in Table II, which is even a larger proportion than before.

The semi-diurnal influence is not therefore restricted to any epicentre or place which may have given off a shock; but another shock often follows the first at any other epicentre or place, and generally at intervals of 12, 24, and 36 hours.

If this influence is due to lunar tides in the crust of the earth, it is strange that the influence is not continually to be found among our shocks; what small amount of work has been done in this respect tends to show that the Moon has no effect on our shocks, generally speaking.

It had not been my intention to advance any theory, but simply to state facts and results; however, it would seem necessary to have something to work upon in order to guide further investigation.

In several respects the facts we have deduced respecting Earthquakes in Jamaica remind us of the action of Geysers; they are regular in their action for a considerable time, and then change their period; and the larger and greater the usual explosive action of a Geyser, the longer its period; at least this is the case with the Great Geyser and the Strokr in Iceland according to the graphic descriptions given by Commander Chas. S. Forbes, R.N.*

The theory of the Geysers is well known and need not be referred to here beyond saying that a natural pipe containing highly heated water extends from below to the surface of the ground, and that a small decrease of pressure in the pipe above a certain point, or a small increase of pressure below that point, may so raise the water at that point as to produce explosive action of steam.

Now Professor T. J. J. See has advanced a theory that the cause of world shaking earthquakes, &c., is the secular leakage of the ocean bottoms, which gives rise to the development of steam beneath the earth's crust.† And the theory here advanced as to the Jamaica earthquakes lies between this and the superficial Geysers; and in consequence the next thing we have to do is to find out to what extent, if any, the rainfall over Jamaica affects our shocks; no doubt water percolates downwards until it meets very high temperatures with theoretical results, and the variation of the supply, or pressure, may affect the shocks.

In comparing the Rainfall with earthquake activity month by month, great care and discrimination are necessary; the epicentres (B), (P), and (Me) are in the NE rainfall division, and their shocks must be compared with the rainfall over that division for the duration of their continuance, namely, from 1870 to 1913; the epicentres (S), (D) and (C) are in the West-central division, from 1880 to 1913; (Mw) is in the sub-central division, from 1890 to 1912; and of course the epicentres (A) and (H) must be omitted from this discussion. We shall however use the rainfall tables from 1870 to 1909 published elsewhere,‡ as the rainfall during the last three or four years cannot affect the general results at which we may arrive.

We must now form tables showing the activity of each of the seven epicentres for each month during the whole period of observations; we must then add together (B), (P), and (Me) and take their mean to compare with the NE rainfall; we must add together (S), (D), and (C) and take their mean to compare with the WC division; and even then we must group the months to show Seasons, and thus get the following table:—

* Iceland. John Murray, London, 1860.
† American Phil. Soc. Phil. Vol. XLVI. No. 186.
‡ A special table had to be made for the Central Sub-division, which as a rule is attached to the Northern division.

MONTHLY RAINFALL AND EARTHQUAKES

Months grouped into Seasons.	North-eastern Division.		West-central Division.		Central Sub-Division.	
	Total Rainfall.	Activity. Mean of B.P.Me.	Total Rainfall.	Activity. Mean of S.D.C.	Total Rainfall.	Activity. Mw.
	In.		In.		In.	
December, January, February } Winter ..	21	23	9	20	6	13
March, April, May } Spring ..	20	17	23	12	15	3
June, July, August } Summer ..	21	22	27	10	18	1
September, October, November } Autumn	32	22	28	14	23	5

In the North-eastern division the rainfall is the same during Winter, Spring and Summer; and the earthquake activity is nearly the same. In the West-central division the rainfall is small during Winter, and the activity large; and this principle is fully confirmed in the Central sub-division.

A diminution of the rainfall therefore produces shocks; and we have now to see how far droughts increase earthquake activity.

In the following table the activity of (B), (P) and (Me) was compared with the annual rainfall over the NE division; then the activity of (S), (D) and (C) was compared with the annual rainfall over the WC division; and lastly the activity of (Mw) was compared with the rainfall over the N division, of which the Sub-central division is a part; but (Mw) does not commence before 1889 and Me does not commence before 1899, and while the e is no very great difference between the rainfall over the NE and WC divisions, the rainfall over the N division is much smaller; consequently it is not easy to say what combination should be adopted. The following General Results are, however, quite sufficient for our purpose.

ANNUAL RAINFALL AND EARTHQUAKES.

General Results.

Year.	Rainfall.	Earthquake Activity.	Year.	Rainfall.	Earthquake Activity.
	in.		1896 ..	82	12
1879 ..	106	..	1897 ..	89	4
1880 ..	70	2	1898 ..	88	8
1881 ..	83	13	1899 ..	100	4
1882 ..	72	15	1900 ..	83	3
1883 ..	75	4	1901 ..	93	2
1884 ..	71	9	1902 ..	88	9
1885 ..	72	8	1903 ..	81	8
1886 ..	108	25	1904 ..	102	0
1887 ..	80	3	1905 ..	97	2
1888 ..	84	7	1906 ..	98	8
1889 ..	84	12	1907 ..	61	33
1890 ..	78	10	1908 ..	86	60
1891 ..	100	6	1909 ..	101	49
1892 ..	87	3	1910 ..	100	18
1893 ..	101	6	1911 ..	75	22
1894 ..	88	9	1912 ..	92	19
1895 ..	85	12	1913 ..	..	13

In the year 1880 there was a drought, and it will be noticed that the earthquake activity was large the following year and the year after. Then the years 1882-5 were unusually dry, and in 1886 the earthquake activity was very large; this was checked the following year by the large rainfall in 1886. The rainfall in 1888 does not account for the increased activity in 1889, which was due to the Epicentre (P). Nor yet does the rainfall in 1901 account for the increased action in 1902, which was due to the Epicentre (S)

In 1907 the Great Earthquake at (H) no doubt increased the activity all over the Island, but the remarkable increase in 1908 is certainly due to the terrible drought in 1907, as is shown by all the seven epicentres on *land*; the Annotto Bay epicentre (A), which is *below the sea* as well as (H), hardly showed any sympathetic effect. This increase was continued over 1909, but was greatly reduced the following year by the rains of 1909.

Now it has been shown in "The Rainfall of Jamaica" that the Rainfall Minima occur about two years after the Maxima and Minima of the Solar Cycle, so that we must now draw up a table to show this connection with the rainfall over the restricted areas and the corresponding earthquake activity.

Solar Cycle	Jamaica droughts.	Earthquake Maxima.	Notes.
1879 Min. ..	.. ..	.. ..	
.. .. ..	1880	.. ..	Drought well marked.
.. .. ..	.. ..	1881	
.. .. ..	1882	1882	
.. .. ..	1883	.. ..	Long continued drought
1884 Max. ..	1884		
.. .. ..	1885	.. ..	
.. .. ..	.. ..	1886	
1889 Min. ..	.. ..	1889	Due to (P)
.. .. ..	1890	1890	Drought not well marked.
1893 Max.	.. ..	.. ..	
.. .. ..	1895	1895	
.. .. ..	1896	1896	Drought not well marked
1902 Min. ..	.. ..	1092	Due to (S)
.. .. ..	1903	1903	
1906 Max.	.. ..	.. ..	
.. .. ..	1907	.. ..	Great drought; great Earthquake Jan. 14.
.. .. ..	.. ..	1908	Activity 60
1911 } Min. ..	1911	1911	Great drought, broken
1912 }	1912	1912	by hurricanes Nov., 1912.

And while these droughts occur about a year after the Solar Max. and Min., the Earthquake Max. occur about half a year after the droughts, or a year and a half after the Solar Max. and Min.

Now this connection between Earthquake Max. and the Solar Max. and Min. has been noticed before. In "Earthquakes" by the late Prof. Milne, p. 265, we read, "M. A. Poey, who examined a catalogue of the earthquakes of Mexico and the Antilles, extending from 1634 to 1870, shows by a table that earthquakes have come in groups, first at the maxima and then at the minima period of sun-spots."

These results, if not as practically useful as might be wished, at least open out wide fields for investigation; they show what may be done without instrumental means; and clearly there is an interesting future for the study of this particular class of earthquakes.

MAXWELL HALL,
Government Meteorologist,

Dec. 9th, 1913.

CORRECTIONS TO THE GENERAL REGISTERS.

The shock of 1887 Sept. 23 should be omitted for our present purpose: it was due to a great earthquake in Hayti.

The after-shocks between 1907 Jan. 14th and July 5th were so numerous that only a few can be picked out with certainty; these have been included, and the rest omitted.

The eight shocks between 1908 Jan. 2nd 1 p.m. and Jan. 8th 11.3 a.m. should also be omitted; they were clearly after-shocks following No. IV of Jan. 2nd 8.9 a.m. which shook the whole Island.

The shock recorded on the seismometer at Great Valley 1909 May, must be omitted as no date can be assigned within the required limits.

And finally the shocks between 1909 July 3 and July 15 were after-shocks following the No. IV of 1909 July 2, and should be omitted, excepting indeed (P) July 7, which was true to time.

Corrigenda.

(B). 1881 Jan.	For	7.8	read	8.1	
	Reduce all the observed intervals 0.3 as far as 1898; and correct O-C.				
(B). 1909 July 2.5	For	III	read	IV.	
(P). 1881 Aug.	"	12.2	"	13.0	
	"	541.7	"	542.5	
	"	—0.1	"	+0.7	
(P). 1889 Sept.	"	7.2	"	7.3	
	"	3489.7	"	3489.8	
	"	—0.5	"	—0.4	
(P). 1909 Aug.	"	29.7	"	30.1	
	"	5850.7	"	5851.1	
	"	+2.5	"	+2.9	
(P). 1911 July	"	13.7	"	14.4	
	"	6533.7	"	6534.4	
	"	+1.2	"	+1.9	
(H). 1910 July	"	24.9	"	25.6	
	"	4854.7	"	4855.4	
	"	—0.6	"	+0.1	

Addenda.

Epicentre.	Date.	Interval Observed.	Period.	N.	Interval Computed	Diff. O–C	Intensity.
		d.	d.		d.	d.	
B ..	1889 Sept. 15.0 ..	3171.9	14.34	221	3169.1	+2.8	I
"	1907 March 22.8 ..	28.2	14.305	2	28.6	—0.4	III
"	" Dec. 22.8 ..	303.2	"	21	300.4	+2.8	I
"	1911 Feb. 16.0 ..	14.4	14.30	1	14.3	+0.1	I
"	1913 Aug. 20.9 ..	657.0	14.34	46	659.6	—2.6	I
P	1882 July 27.6 ..	922.1	12.60	73	919.8	+2.3	II
"	" Sept. 7.2 ..	932.7	"	74	932.4	+0.3	II
"	1907 Dec. 15.1 ..	5227.1	12.91	405	5228.5	—1.4	I
"	1908 Jan. 22.5 ..	5255.5	"	407	5254.4	+1.1	I
"	" June 17.2 ..	5433.2	"	421	5435.1	—1.9	I
"	" Sept. 14.3	5501.3	"	426	5499.7	+1.6	II
"	1910 Mar. 19.8	6053.8	"	469	6054.8	—1.0	I
"	1911 Mar. 28.9	6426.9	"	498	6428.2	—1.3	I
H	1909 Feb. 10.1	4324.9	21.11	205	4327.5	—2.6	I
"	1913 Aug. 16	5972.8	"	283	5974.2	—1.4	II

OF THE
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29 MAR 1915

No. 425.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

DECEMBER, 1913.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.979	29.935	76.1	80.1	81.6	72.3	9.3	83.0	6	65.0	5	18. 0
Kingston ..	24	29.951	29.905	70.7	81.6	87.0	69.2	17.8	89.3	5*	67.6	2*	21.7
Negril Point Light House ..	33	29.967	29.921	73.0	81.6	84.2	69.6	14.6	86.6	27	62.6	4	24.0
Castleton Gardens ..	496	..	..	66.2	80.8	84.9	62.1	22.8	90	22	59	22	31
Hope Gardens† ..	668	29.973	29.878	68.1	81.9	85.0	65.5	19.5	89	28	63	2	26
Stony Hill Indus. School ..	1,400	..	..	66.5	77.1	79.3	63.0	16.3	87	24	60	4	27
Hill Gardens ..	4,900	25.285	25.244	60.8	62.8	66.6	53.4	13.2	71	9	51	6	20

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction from and miles per hour.				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in.	miles		m.		m.	L.	M	U.	L.	M.	U.
Morant Pt. Light House ..	8	70.5	83	70.0	72	4.50	265	NE	8	NE	11	1.0	2.0	2.2	0.6	1.7	2.3
Kingston ..	24	65.4	82	69.6	67	0.17	161	N	5	SE	11	0.7	1.2	1.4	2.5	1.5	1.7
Negril Point Light House‡ ..	33	66.5	80	69.7	67	1.16	211	E	10	N	11	1.1	0.7	1.1	2.0	3.9	0.3
Castleton Gardens ..	496	64.2	93	70.3	69	3.41	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	63.1	84	70.5	69	2.32	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	64.6	93	73.9	90	5.29	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens .	4,900	54.2	78	59.3	87	3.82	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m. ENE 8.1

RAINFALL FOR DECEMBER, 1913.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	DECEMBER, 1913. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	6.46	2.20	9	11	8.02
Ecclesdown ...	12.46	4.00	9	17	..
Spring Valley, Portland .	8.69	3.09	9	15	.
Bath ...	8.26	4.00	9	18	8.80
Boston ...	6.95	2.40	10	17	9.92
Moore Town ...	19.65	...	...	...	25.39
Port Antonio ...	11.04	3.78	10	18	13.78
Fellowship ...	18.64	4.65	9	15	19.92
Windsor, Portland ...	...	...	...	...	...
Johnson River Bridge ...	5.03	2.74	9	12	5.53
Shrewsbury ...	15.06	8.43	9	9	...
Cedar Valley, St. Thos. ...	3.55	1.35	9	6	5.52
Hope Bay ...	10.30	2.65	10	15	...
Moy Hall, St. Thos. ...	5.18	1.60	9	12	5.94
Lennox ...	17.80	5.75	9	13	..
Hill Gardens ...	3.82	...	...	...	10.73
Buff Bay ...	10.21	5.02	9	10	...
Vinery ...	12.49	6.40	9	10	...
Windsor Castle, Port. ...	9.86	4.37	9	7	..
Greenvale, Portland ...	14.82	5.20	9	12	...
Mt. Holstein ...	9.12	2.20	9	15	17.04
Irish Town ...	3.42	1.12	11	6	...
Rose Hill ...	3.71	1.21	11	4	...
Hardwar Gap ...	1.50	...	...	...	6.86
Stony Hill Ind. School ...	5.29	1.95	11	9	4.16
Castleton Gardens ...	3.41	...	...	...	12.92
Lawrence Tavern ...	1.81	0.90	10	3	4.48
Cedar Valley, Red Hills ...	4.78	1.85	11	6	...
Carew Castle ...	1.49	1.00	11	4	4.40
Agualta Vale ...	8.36	3.30	9	12	...
Water Valley ...	6.31	2.00	9	10	6.83
Albany, Ry. Station ..	7.49	2.19	13	12	...
Platfield ...	3.02	1.38	9	11	...
Richmond, St. Mary ..	5.96	3.04	9	9	9.50
Hampstead, St. Mary ...	13.45	2.92	13	15	...
Troja ...	6.16	2.55	9	8	...
Lucky Hill ...	...	...	...	...	...
Rio Hoe ...	4.92	1.98	9	8	9.10
Unity Valley ...	3.85	1.22	9	11	7.66
Moneague ...	4.25	2.20	9	9	7.60
Claremont ...	2.64	1.12	13	5	8.49
Albion, St. Ann ...	4.20	1.29	13	12	8.19
Averham Park ...	4.24	1.50	13	7	10.41
Means ...	6.14	...	..	...	...

NORTHERN DIVISION.	DECEMBER, 1913. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	6.09	1.52	9	11	8.06
Ocho Rios ...	2.42	1.00	13	7	5.74
Bogue, Ocho Rios ...	3.09	0.88	4	8	...
Drax Hall ...	3.00	1.00	14	18	8.47
St. Ann's Bay ...	3.23	0.71	12	11	7.07
Seville ...	3.69	0.65	14	10	7.77
Richmond Estate ...	2.62	0.90	12	10	8.55
Llandovery ...	2.87	0.75	1	8	8.17
Runaway Bay ...	2.80	0.70	4	7	...
Brown's Town ...	...	...	...	...	...
Alexandria ...	3.15	1.30	11	4	...
Chewmagna, St. Ann ...	2.52	1.65	11	5	3.38
Home Castle ...	2.45	0.50	1	10	7.63
Richmond Pen ...	2.40	0.95	11	4	4.86
Mahogany Hall ...	0.65	0.27	1	4	6.74
Barnstaple ...	1.89	0.70	29	4	...
Brampton Bryan ...	1.68	0.55	4	9	5.78
Bryan Castle ...	1.62	0.60	4	10	6.54
Braco ...	0.90	0.25	6	5	5.80
Arcadia ...	1.21	0.41	4	7	6.78
Lancaster ...	1.21	0.37	26	6	6.54
Harmony Hall ...	1.88	0.77	12	6	6.15
Vale Royal ...	1.21	0.35	27	5	7.88
Colchis Pen ...	0.62	0.25	27	6	...
Swanswick ...	1.71	0.60	27	7	...
Georgia ...	1.20	0.30	27	7	...
Long Pond ...	1.19	0.35	4	7	4.37
Hyde Hall ...	1.35	0.40	4	7	..
Steelfield ...	2.03	0.50	28	6	6.36
Etingdon ...	1.13	0.50	9	4	4.71
Lottery ...	1.55	0.60	9	5	5.54
Falmouth ...	...	...	...	...	...
Florence Hall ...	1.32	0.75	11	6	...
Kent ...	3.01	0.90	12	12	...
Gales Valley ...	2.10	0.70	27	8	4.93
Canaan ...	2.52	0.32	7	14	5.03
Content ...	1.97	0.62	11	8	5.22
Bellfield ...	2.35	0.73	4	9	...
Hampden ...	...	...	..	...	...
Moor Park ...	2.05	0.45	11	8	...
Guilsbro ...	2.38	0.90	4	13	...
Rose Hall ...	...	...	...	...	...
Montego Bay ...	...	...	..	...	...
Catherine Hall ...	2.56	1.77	25	4	5.61
Retirement ...	3.43	2.11	25	11	...
King Gate ...	...	...	...	...	...
Round Hill ...	2.70	1.00	5	6	3.33
Blue Hole ...	2.34	1.00	6	3	...
Haughton Court ...	2.66	1.77	25	3	...
Lucea ...	2.83	1.03	6	5	3.95
Green Island, Police St. ...	1.03	0.78	11	4	...
CENTRAL SUB-DIVISION.					
Headworks, Rio Cobre ...	1.04	0.60	11	3	2.05
Linstead ...	2.25	1.20	4	6	3.70
Berkshire Hall ...	2.82	0.99	9	9	...
Point Hill ...	3.72	1.15	2	8	5.92
Brown's Hall ..	2.29	0.80	10	6	3.01
Worthy Park ...	1.14	0.44	9	4	2.68
Croft Hill ...	1.96	0.92	9	3	...
Chapelton ...	2.50	0.87	16	7	2.47
Danks Works ...	3.08	0.48	31	10	2.57
Savoy House ...	2.53	0.75	31	11	2.81
Crooked River ...	2.36	1.07	31	7	...
Trout Hall ...	1.38	0.58	5	9	...
Cave Valley ...	3.50	...	...	..	2.61
Greenock ...	3.70	...	...	..	...
Means ...	2.28	...	...	...	..

WEST-CENTRAL DIVISION.	DECEMBER, 1913. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Whitney ...	...	...	...	...	...
Mocho, Clarendon ...	1.35	0.50	10	6	...
Baillieston ...	...	...	...	...	...
Brokenhurst ...	...	..	...	...	...
Christiana ...	0.95	0.28	5	11	3.68
Chudleigh ...	1.73	0.37	10	10	...
Shooter's Hill ...	3.24	0.95	5	11	...
Spitzbergen ...	3.61	1.30	10	11	...
Kendal, Manchester ...	3.53	1.34	5	7	2.92
Marshalls Pen ...	5.38	1.77	10	9	3.65
Mandeville ...	3.36	0.71	12	13	3.62
Carlton, Mandeville ...	3.11	1.10	5	9	...
The Hill ...	2.25	0.80	31	6	...
Fairfield, Manchester ...	3.95	1.57	12	16	2.94
Ulster Spring ...	1.95	0.70	11	7	4.26
Freeman's Hall ...	2.60	1.00	11	4	..
Albert Town ...	2.10	0.89	5	5	...
Lowe River ...	2.00	1.05	5	3	...
Troy ...	2.10	1.00	11	3	3.58
Windsor Pen, Trel. ...	1.08	0.36	20	8	4.51
Wallingford ...	4.58	1.08	15	14	...
Balaclava Police Station ...	5.23	1.50	31	9	2.42
Siloah ...	4.85	2.25	12	7	...
Appleton Estate ...	4.18	2.61	12	10	3.04
Maggotty ...	3.40	2.00	12	9	2.98
Butlers ...	9.70	1.80	12	12	...
Deeside ..	0.70	0.34	2	4	...
Spring Vale ...	2.69	1.00	5	5	6.27
Garland ...	...	...	...	...	...
Mocho, Catadupa ...	...	...	...	...	...
Springfield, St. Elizabeth	3.14	0.66	31	9	...
Chesterfield, St. James ...	2.72	0.96	18	6	...
Catadupa Rly. Station ...	...	.	..	...	...
Kempshot ...	1.88	1.12	8	13	5.40
Cambridge, St. James ...	1.72	0.55	25	6	...
Ducketts ...	2.79	0.90	10	6	...
Hazelymph ...	...	..	...	...	...
New Market, Police St. ...	2.07	0.85	26	6	...
The Bog, New Market ...	2.22	1.37	13	6	...
Kew Park ...	2.19	1.26	5	6	2.67
Montpelier ...	..	..	...	...	..
Knockalva ..	2.10	1.14	5	4	...
Ramble ...	2.39	1.00	5	6	...
Petersville ...	1.23	0.40	28	6	2.72
Darliston ...	3.45	1.34	12	7	3.47
Whithorn ...	3.00	1.90	11	7	2.94
Water Works ...	2.69	1.26	12	5	...
Great Valley, Han. ...	2.30	1.30	6	2	5.13
Prospect Park ...	1.14	0.44	6	5	...
Fontabelle, Westm. ...	2.23	0.95	12	6	3.19
Belleisle ...	2.79	0.15	12	7	2.78
Morgan's Bridge ...	1.86	0.70	12	3	3.28
King's Vale Police St. ...	1.24	0.32	21	6	3.33
Means ...	2.77	...	...	...	...

SOUTHERN DIVISION.	DECEMBER, 1913. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	4.50	1.83	10	16	6.41
Pleasant Hill ...	4.87	1.05	9	9	...
East Prospect ...	5.88	1.53	12	17	...
Morant Bay ...	2.37	1.00	7	9	4.52
Easington ...	2.19	0.78	9	7	3.31
Bull Bay ...	0.63	0.23	2	4	1.75
Bellevue ...	2·37	0.75	10	12	..
Gordon Town ...	3.87	2.21	11	3	3.37
Hope Gardens ...	2.32	...	...	...	2.83
King's House Gardens ...	1.89	...	...	...	1.90
Halfway Tree ...	1.56	1.30	11	2	2.12
Lunatic Asylum ...	0.13	0.07	7	4	2.03
Parade Gardens ...	0.34	0.14	11	3	...
Kingston S. Camp Road ...	0.21	0.09	9	3	..
" P. W. Office ..	0.17	0.06	10	5	1.78
Plumb Point L. H. ...	0.14	0.06	10	4	1.60
Clifton Pen ...	0.19	0.11	13	2	...
Quarantine Station ...	0.18	0.18	13	1	...
Spanish Town ...	1.87	0.95	10	6	2.08
Hog Hole Pen ...	1.80	0.71	12	4	2.83
Hartlands ...	2.88	2.00	10	3	...
Belmont, Guanaboa Vale	3.87	1.60	11	9	...
Old Harbour ...	1.13	0.93	10	3	2.71
May Pen ...	1.29	0.55	..	4	2.40
Dunkley's, Vere ...	0.35	0.20	10	2	1.91
Dry River " ...	1.15	0.86	10	5	...
Denbigh ...	1.50	1.50	10	1	2.12
Toll Gate ...	3.11	1.06	10	5	...
Woodleigh ...	2.20	1.60	10	2	...
New Yarmouth ...	0.83	0.37	10	4	1.97
Exeter, Vere ...	0.75	0.20	7	7	...
Rhymesbury ...	1.41	0.85	10	9	2.23
Milk River ...	3.40	1.90	31	2	2.48
Clarendon Pk. Ry. St. ...	..	...	...	..	..
Victoria Town ...	3.71	1.41	10	4	3.03
Hog Hole, S. Manch. ...	3.34	1.35	11	7	...
Stone's Hope ...	2.89	1.16	26	5	2.85
Newport, Manchester ...	3.18	0.87	26	8	4.11
Great Valley, Man. ...	3.72	1.21	26	10	2.77
Alligator Pond ...	2.94	1.24	26	5	2.70
Southfield, St. Elizabeth ...	2.93	0.97	5	9	...
Lititz ...	3.54	1.00	26	10	...
Long Hill ...	4.04	1.32	10	11	3.15
Torrington ...	7.30	2.55	14	11	2.72
Bethlehem, St. Eliz. ...	6.64	2.12	12	13	2.44
Santa Cruz ...	4.13	1.21	12	9	2.77
Pedro Plains Police St. ...	3.07	1.15	14	11	1.28
Black River ...	2.58	0.82	15	7	2.27
Font Hill ...	1.80	1.40	15	3	2.08
Mount Edgecombe ...	1.55	0.69	14	7	2.44
Bluefields ...	...	...	...	...	...
Sweet River ...	4.60	2.80	11	8	2.46
Windsor, Sav.-la-mar ...	2.92	1.10	11	6	2.48
Orchard ...	2.65	0.98	12	6	...
Sav.-la-mar ...	2.60	1.20	12	3	2.36
Retreat ...	1.48	0.70	14	4	...
White Hall ...	...	...	..	..	...
Negril Point L.H. ...	1.16	0.43	30	7	2.12
Means ...	2.49	...	...	...	...

NOTES.

COMPARATIVE TABLE OF RAINFALL.

(Based upon the "Average" Stations only.)

—	DECEMBER.	
	1913.	Average.
	In.	In.
North-Eastern Division ...	6.14	10.28
Northern " ...	2.28	5.45
West-Central " ...	2.77	3.60
Southern " ...	2.49	2.61
The Island ...	3.42	5.48

The winter rains which fell in November were not continued in December so that the rainfall was below the average. On the 9th heavy rains fell between Fellowship and Greenvale in Portland and damaged the roads; the stone bridge at Spring Garden was carried away; and the Spanish River over flowed its banks. More than 19 inches fell at Moore Town during the month, but at Kingston and its neighbourhood the rainfall was hardly two-tenths of an inch.

Rainfall at Grand Cayman, November, 1913.	Total Fall.	Greatest fall. Amount.	Greatest fall. Date.	No. of days on which 0.01 or more fell.
	In.	In.		
East End ...	..	..	..	..
Bodden Town ...	..	...	...	..
George Town ...	..	..	..	..

SHOCKS OF EARTHQUAKE IN DECEMBER, 1913.

Date.	Mean time.	Intensity.	Notes: where felt, etc.
	hr. min.		
29	1 2 a.m.	I	Kingston 0.002 Halfway Tree, N 72° E, 0.002
30	6 40 p.m.	I	Windsor Pen, Trelawny.
		...	

THE ISLAND RAINFALL, 1913.

Month.	N.E.	N.	W.C.	S.	The Island.
	in.	in.	in.	in.	in.
January ..	7.63	3.29	2.15	1.47	3.64
February ..	1.56	0.77	1.37	0.84	1.14
March ..	3.13	2.58	6.35	3.10	3.79
April ..	10.45	6.29	8.59	6.42	7.94
May ..	11.10	5.89	9.95	5.32	8.06
June ..	5.70	3.24	4.39	1.89	3.80
July ..	4.17	2.63	8.55	2.57	4.48
August ..	6.43	3.46	7.57	4.52	5.50
September ..	8.39	4.54	9.11	5.55	6.90
October ..	7.14	5.83	10.57	4.54	7.02
November ..	15.35	10.29	5.71	3.24	8.65
December ..	6.14	2.28	2.77	2.49	3.42
Total .	87.19	51.09	77.08	41.95	64.34

PLUMB POINT LIGHT HOUSE—

Average No. of Miles of wind per diem	132
Greatest on the 24th	462
Least on the 1st	55

The Weather Office,
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

METEOROLOGICAL OBSERVATIONS, KINGSTON, JAMAICA. MEAN RESULTS FOR THE YEAR 1913.

Month.	Bar Pressure.		Temperature.						Extremes for the month.			Dewpoint and humidity.				Rainfall.	Miles of Wind per diem.	Wind from and miles per hour.						Clouds in tenths.						Weather Conditions.
																		7 a.m.		3 p.m.		11 p.m.		Lower.		Middle.		Upper.		
	7 a.m.	3 p.m.	Mean.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Min.	Range.	7 a.m.		3 p.m.										7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 p.m.	11 p.m.	
	Ins.	Ins.	°	°	°	°	°	°	°	°	°	°		°		Ins.	Mls.		mls.		mls.		mls.							
January ..	29.999	29.939	76.5	70.0	82.9	86.5	68.6	17.9	90.1	66.1	24.0	64.7	83	69.5	64	0.09	169.3	N	4.7	SE	12.4	NNE	5.4	1.0	1.6	0.9	1.5	1.0	1.1	Rainfall very deficient. Distant lightning and thunder early part of the month. Sea breeze continued late on night of 23rd. Fine on ten days.
February ..	30.005	29.958	75.6	69.5	81.8	86.0	67.2	18.8	89.3	61.1	28.2	63.3	81	68.8	65	0.06	187.8	N by E	4.5	SE	13.3	NE	5.2	2.0	4.9	1.1	1.6	0.1	0.3	Rainfall very deficient. Generally fine. Sea breeze (SE) continued overnight 27th and 28th.
March ..	30.017	29.958	77.3	72.8	82.7	86.5	69.3	17.2	90.2	66.1	24.1	65.3	77	67.5	60	0.47	264.2	E	6.2	SE	19.8	ESE	5.7	2.4	3.1	1.1	1.9	0.3	0.1	Rainfall about one-half the average. Sea breeze continued late on ten nights. Thunderstorm latter part of month.
April ..	29.956	29.906	76.5	72.9	80.8	84.9	69.5	15.4	86.9	66.4	20.5	67.7	84	72.1	75	2.57	175.1	NNE	4.8	SE	12.1	NNW	4.6	1.8	4.7	1.2	1.3	1.4	0.9	Rainfall about 2½ times the average. Humidity also in excess. Distant lightning on 6th. Norther on 15th and 16th.
May ..	29.950	29.907	78.2	74.5	83.7	86.1	70.4	15.7	88.3	65.8	22.5	68.6	82	70.3	64	3.05	168.6	NNE	4.4	SE	12.1	NNE	4.4	2.4	4.2	0.9	2.0	1.7	1.7	Rainfall below the average. Rainy from 9th to 17th and towards end of month. Distant thunder on 11th and 26th. Fine on nine days.
Jnne ..	29.957	29.923	80.4	77.4	84.7	88.4	73.2	15.2	90.7	70.8	19.9	69.2	76	71.0	64	0.48	273.5	E	6.6	SE	17.9	ESE	7.1	1.8	2.9	1.8	1.0	1.9	3.6	Rainfall very deficient, gencrally cloudy. Distant lightning on many occasions. 36 mile ESE squall on 30th.
July ..	29.990	29.951	80.3	76.4	84.9	89.7	72.3	17.4	92.9	68.1	24.8	67.9	75	71.7	65	1.82	232.6	NNE	4.8	SE	18.9	NE	4.3	1.3	2.6	0.8	0.8	2.1	3.6	Thunderstorms on six occasions. Frequent distant lightning. Fine on ten days.
August ..	29.949	29.905	80.7	76.8	84.9	89.8	73.2	16.6	93.2	70.8	22.4	69.5	78	72.7	67	1.08	218.6	NE by N	4.3	SE	17.1	E by N	4.5	0.6	2.3	1.3	1.4	2.2	2.8	Frequent lightning. Squally on several days. Rainfall very deficient.
September ..	29.908	29.859	80.0	75.9	83.6	89.3	73.1	16.2	93.5	69.4	24.1	70.1	82	73.6	72	3.57	185.1	N	4.3	SE	15.3	NNE	3.9	2.5	4.4	0.3	0.9	3.0	2.9	Rainfall a little below the average. Frequent thunderstorms. Squally on several days. Few fine days.
October ..	29.921	29.865	79.8	75.2	83.6	89.8	72.5	17.3	92.9	69.5	23.4	67.8	78	73.3	71	1.41	161.4	N by E	4.5	SE	11.3	NNW	4.2	1.3	3.5	1.1	1.1	1.6	2.4	Rainfall very deficient. Distant thunderstorms on several days. Squally on 29th and 30th. Fine on 16 days.
November ..	29.919	29.863	78.4	72.8	83.3	88.1	71.2	16.8	90.2	68.2	22.0	69.3	89	72.3	70	1.68	136.2	N	4.1	SE	8.9	N	4.8	1.4	4.0	1.3	1.8	3.1	1.9	Rainfall about one-half the average. Thunderstorms on six occasions. Fine on nine days.
December ..	29.951	29.905	76.6	70.7	81.6	87.0	69.2	17.8	89.3	67.6	21.7	65.4	82	69.6	67	0.17	160.6	N	5.0	SE	11.3	N by E	4.8	0.7	2.5	1.2	1.5	1.4	1.7	Rainfall very deficient. Fresh "norther" on 1th. SE squall 8 p.m. 28th. Fine on 21 days.
Total ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16.45														
Means ..	29.960	29.912	78.4	73.7	83.2	87.7	70.8	16.9	90.6	67.5	23.1	67.4	81	71.0	67		194.4	NNE	4.8	SE	14.2	NE	4.9	1.6	3.4	1.1	1.4	1.6	1.9	Rainfall about one-half the average.

551.05 Stark
JA

UNIVERSITY COLLEGE
13 APR 1914

No. 426.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

JANUARY, 1914.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date	Min.	Date	
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.997	29.963	76.1	79.6	81.7	71.5	10.2	88.0	3	60.0	19	22
Kingston ..	24	29.971	29.928	70.3	82.1	86.9	68.8	18.1	89.4	10	63.9	29	25.5
Negril Point Light House ..	33	29.989	29.945	71.3	80.3	82.7	68.6	14.1	85.5	6	61.0	17	24.5
Castleton Gardens ..	496	..	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens† ..	668	..	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	..	..	66.1	77.3	79.8	61.4	18.4	86	30*	56	18*	30
Hill Gardens ..	4,900	..	..	..	..	..	..	..	..	..	..	..	..

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction from and miles per hour.				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	70.5	83	72.2	77	2.52	297	ENE	15	ENE	14	3.5	1.4	1.3	1.9	2.3	1.3
Kingston ..	24	63.4	79	66.6	60	0.14	190	NNE	6	SE	14	2.1	0.4	1.5	1.8	2.5	1.1
Negril Point Light House‡ ..	33	65.7	83	71.3	74	2.12	244	E	8	SE	16	2.9	1.6	1.6	2.6	2.9	0.6
Castleton Gardens ..	496	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	61.4	85	68.0	72	0.40	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m. ENE 9.9

RAINFALL FOR JANUARY, 1914.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	JANUARY, 1914. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Ecclesdown ...	7.18	2.50	31	14	..
Spring Valley, Portland .	3.24	0.67	21	10	.
Bath ...	4.06	1.56	31	18	6.26
Boston ...	4.50	1.90	31	4	9.50
Moore Town ...	16.20	...	...	...	18.55
Port Antonio ...	13.26	6.04	21	10	9.10
Fellowship ...	11.44	4.80	29	13	14.16
Windsor, Portland ...	11.46	5.90	29	5	...
Johnson River Bridge ...	1.94	0.35	31	14	3.59
Shrewsbury ...	2.34	0.90	31	6	...
Cedar Valley, St. Thos. ...	2.15	0.60	21	9	4.46
Hope Bay ...	4.05	1.57	29	10	...
Moy Hall, St. Thos. ...	1.36	0.25	24	7	3.46
Lennox ...	2.85	0.75	4	7	..
Farm Hill ...	0.74	0.25	27	5	...
Hill Gardens ...	...	...	...	...	...
Buff Bay ...	1.44	0.97	14	5	10.22
Vinery ...	2.49	0.90	15	8	..
Windsor Castle, Port. ...	2.24	1.22	14	3	...
Greenvale, Portland ...	2.70	0.50	23	10	...
Mt. Holstein ...	1.38	0.46	31	15	14.03
Irish Town ...	0.00	0.00	...	0	...
Rose Hill ...	0.62	0.62	14	1	...
Hardwar Gap ...	1.00	...	...	...	4.95
Annotto Bay ...	0.98	0.31	13		6.78
Stony Hill Ind. School ...	0.40	0.40	28	1	3.30
Castleton Gardens ...	...	...	...	...	...
Lawrence Tavern ...	0.60	0.60	28	1	1.95
Cedar Valley, Red Hills ...	0.42	0.26	28	...	...
Carew Castle ...	0.78	0.60	28	7	...
Agualta Vale ...	0.98	0.31	13	8	...
Water Valley ...	1.00	0.35	14	10	7.90
Albany, Ry. Station ..	0.49	0.20	31	4	...
Platfield ...	1.11	0.60	22	7	...
Richmond, St. Mary ..	0.75	0.25	31	6	6.18
Hampstead, St. Mary ...	2.66	1.07	26	8	...
Troja ...	0.90	0.30	20	5	...
Lucky Hill ...	1.27	0.61	14	6	...
Rio Hoe ...	1.88	0.53	15	12	5.47
Unity Valley ...	1.47	0.64	31	9	4.69
Moneague ...	1.85	1.10	31	6	4.18
Claremont ...	2.50	0.90	13	4	6.12
Albion, St. Ann ...	1.85	1.15	14	10	5.15
Averham Park ...	3.93	2.00	14	14	6.88
Means ...	3.45	...	...	...	...

NORTHERN DIVISION.	JANUARY, 1914. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	2.81	0.55	5	9	6.72
Ocho Rios ...	2.12	0.80	30	5	5.42
Boge, Ocho Rios ...	2.42	1.10	31	4	...
Dra[illegible]Hall ...	1.62	0.50	13	5	4.84
St. A[illegible]'s Bay ...	1.92	0.57	26	8	5.01
Seville ...	1.95	0.65	26	9	5.61
Richmo[illegible] Estate ...	1.43	0.50	14	7	6.37
Llandove ...	2.03	0.98	14	5	6.62
Runaway [illegible]y ...	2.60	1.60	26	4	...
Brown's To[illegible] ...	2.59	1.28	27	3	5.41
Alexandria ...	1.70	1.10	14	2	...
Chewmagna, [illegible] Ann ...	3.88	1.77	26	4	2.70
Home Castle ...	3.20	1.10	13	4	5.39
Richmond Pen ...	2.26	1.36	14	2	3.48
Mahogany Hall ...	3.17	1.75	14	5	4.76
Barnstaple ...	2.92	1.35	15	4	...
Brampton Bryan ...	2.16	1.30	14	4	4.12
Bryan Castle ...	1.42	0.80	14	3	4.66
Braco ...	1.55	0.90	14	3	4.17
Arcadia ...	1.65	1.07	14	4	4.38
Lancaster ...	1.50	0.77	14	6	4.59
Harmony Hall ...	2.01	0.70	30	6	3.97
Vale Royal ...	2.22	1.40	14	3	4.94
Colchis Pen ...	[illegible].61	0.80	14	5	3.29
Swanswick ...	[illegible]08	1.08	13	4	...
Georgia ...	[illegible]54	1.40	14	4	3.96
Long Pond ...	[illegible]8	0.72	14	3	4.55
Hyde Hall ...	1	...	...	...	...
Steelfield ...	1.	0.87	14	4	4.38
Etingdon ...	2.[illegible]	1.20	7	4	2.92
Lottery ...	0.[illegible]	1.40	14	5	3.78
Falmouth ...	1.[illegible]	0.31	14	4	3.60
Florence Hall ...	3.12	[illegible].98	26	4	
Unity ...	2.05	.08	14	3	...
Kent ...	2.44	.00	14	5	3.96
Gales Valley ...	2.72	[illegible]5	14	5	3.35
Canaan ...	2.08	[illegible]	26	5	3.08
Content ...	1.74	0	14	6	4.41
Bellfield ...	...		14	5	...
Hampden ...	2.00	0.8[illegible]	...	...	...
Moor Park ...	...	...	14	6	...
Guilsbro ...	1.12	0.60	...	...	...
Success ...	1.45	0.76	[illegible]4	4	3.84
Cinnamon H ll ...	1.33	0.50	[illegible]	4	3.51
Rose Hall ...	1.20	0.50	2	4	3.38
Running Gut ...	...	...	...	4	3.54
Montego Bay ...	...	...	..	..	...
Catherine Hall ...	1.63	0.98	14	6	...
Retirement ...	...	...	...	...	...
King Gate ...	1.55	0.25	31	.	...
Round Hill ...	5.22	2.40	14		...
Blue Hole ...	4.32	1.20	14		...
Haughton Court ...	5.23	1.30	14	7	3.07
Lucea ...	3.23	1.18	30	6	...
Green Island, Police St. ...					
CENTRAL SUB-DIVISION.					
Headworks, Rio Cobre ...	2.40	1.80	28	3	1.84
Linstead ...	0.55	0.30	[illegible]5	2	2.15
Berkshire Hall ...	0.63	0.51	[illegible]	3	...
Point Hill ...	0.96	0.28	2[illegible]	11	2.74
Brown's Hall ...	1.89	0.48	2[illegible]	8	1.80
Worthy Park ...	0.69	0.34	28	3	2.04
Croft Hill ...	...	...	...	...	...
Chapelton ...	0.36	0.18	25	3	2.24
Danks Works ...	1.11	0.42	26	4	1.89
Savoy House ...	1.13	0.50	1	6	2.29
Crooked River ...	0.92	0.34	30	5	...
Trout Hall ...	1.08	0.43	1	7	...
Cave Valley ...	1.35	0.77	14	..	2.26
Greenock ...	1.45	0.85	14	...	...
Means ...	1.87	...	...	...	...

WEST-CENTRAL DIVISION.	JANUARY, 1914. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	n.			In.
Whitney ...	...	...	...	...	...
Mocho, Clarendon ...	2.60	0.75	31	5	
Baillieston ...	...	...	...	...	..
Brokenhurst ...	...	..	...	...	.35
Christiana ...	2.00	1.22	14	12	...
Chudleigh ...	1.56	0.47	30	7	...
Shooter's Hill ...	1.67	0.60	14		...
Spitzbergen ...	1.52	0.54	31		2.39
Kendal, Manchester ...	1.92	0.96	30	6	2.85
Marshalls Pen ...	2.80	1.32	30	10	3.04
Mandeville ...	3.74	2.29		10	...
Carlton, Mandeville ...	2.28	1.00		9	...
The Hill ...	5.68	4.29	30	8	2.61
Fairfield, Manchester ...	4.83	4.0	14	5	3.06
Ulster Spring ...	3.28	2.	13	3	..
Freeman's Hall ...	2.30		14	3	...
Albert Town ...	2.53	0	26	3	...
Lowe River ...	2.90	.30	26	6	2.25
Troy ...	2.90	1.20	14	6	3.13
Windsor Pen, Trel. ...	1.91	1.15	30	5	...
Medina ...	3.09	0.70	30	11	...
Wallingford ...	1.9	0.73	30	8	1.71
Balaclava Police Station ...	1	0.84	20	6	...
Siloah ...		0.70	30	6	2.59
Appleton Estate ...		...	...	...	...
Maggotty ...	.75	1.45	13	7	...
Butlers ...	.66	1.75	15	5	...
Deeside ...	2.52	1.32	14	3	4.03
Spring Vale	3.00	1.40	26	4	...
Garland	2.45	1.01	26	4	...
Mocho, Catadupa	2.68	1.03	31	5	...
Springfield, St. Elizabe	1.40	0.67	29	5	...
Chesterfield, St. James	...		...	...	...
Catadupa Rly. Statio...	1.63	0.86	14	5	3.98
Kempshot	2.04	0.75	14	9	...
Cambridge, St. Jan ...	1.39	0.53	21	7	...
Ducketts ...	...	..	...	...	...
Hazelymph St. ...	1.77	0.90	30	4	...
New Market, Pol et ...	2.14	0.59	30	7	...
The Bog, New M ...	1.76	0.82	14	6	2.32
Kew Park ...	..	...	..	...	..
Montpelier ...	3.04	0.98	31	8	...
Knockalva ...	4.69	1.33	31	11	...
Ramble ...	2.22	1.20	13	4	2.25
Petersville ...	...	...	...	...	...
Darliston ...	2.05	0.70	30	8	1.97
Whithorn ...	1.95	0.55	31	7	...
Water Wo s ...	5.60	2.00	14	6	4.68
Great Va y, Han. ...	4.44	1.21	14	10	...
Prospect ark ...	4.14	2.07	15	7	1.94
Fontabel Westm. ...	3.75	1.96	14	6	1.80
Belleisle ...	6.50	4.10	14	4	1.82
Morgan Bridge ...	4.38	1.31	14	9	3.26
King's ale Police St. ...					
Means ...	3.10	...	...	...	...

SOUTHERN DIVISION.	JANUARY, 1914. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	2.52	0.98	3	11	4.30
Elliott Hill ...	2.49	0.60	13	17	...
Pleasant Hill ...	2.55	0.70	12	11	...
East Prospect ...	2.43	0.46	17	16	...
Morant Bay ...	1.28	0.27	29	14	2.70
Easington ...	0.74	0.45	29	4	1.64
Bull Bay ...	0.00	0.00	...	0	0.87
Bellevue ...	1.16	0.55	26	8	..
Gordon Town ...	0.00	0.00	...	0	2.08
Hope Gardens ...	...	...	...	...	...
King's House Gardens ...	...	...	...	...	...
Halfway Tree ...	0.00	0.00	...	0	1.12
Lunatic Asylum ...	0.19	0.08	29	3	0.72
Parade Gardens ...	...	...	...	...	...
Kingston S. Camp Road ...	0.11	0.06	29	2	..
" P. W. Office ...	0.14	0.10	30	2	1.02
Plumb Point L. H. ...	1.09	0.85	9	3	0.80
Clifton Pen ...	0.00	0.00	...	0	...
Quarantine Station ...	0.29	0.19	30	2	...
Spanish Town ...	0.94	0.64	26	4	1.52
Hog Hole, St. Catherine...	0.90	0.67	27	3	1.71
Hartlands ...	0.76	0.34	25	3	...
Belmont, Guanaboa Vale	0.87	0.35	1	8	...
Old Harbour ...	2.14	1.20	25	4	2.07
May Pen ...	2.19	0.65	26	6	1.26
Dunkley's, Vere ...	1.70	0.90	26	5	1.33
Dry River " ...	3.43	1.71	26	7	...
Denbigh ...	0.50	0.30	26	2	1.59
Toll Gate ...	1.74	0.93	30	4	...
Woodleigh ...	0.60	0.40	28	2	...
New Yarmouth	3.44	2.50	30	5	...
Exeter, Vere ...	2.55	0.64	30	8	1.01
Rhymesbury ...	4.18	3.10	30	5	1.50
Milk River ...	3.03	1.65	3	8	..
Clarendon Pk. Ry. St. ...	3.33	1.79	30	4	1.81
Victoria Town ...	5.25	2.55	30	6	...
Hog Hole, S. Manch. ...	3.30	3.21	30	2	2.68
Stone's Hope ...	5.10	3.44	30	3	2.66
Newport, Manchester ...	4.54	3.97	30	6	2.49
Great Valley, Man. ...	4.35	4.07	30	3	1.41
Alligator Pond ...	3.96	3.02	31	7	...
Southfield, St. Elizabeth ...	2.47	2.40	30	2	...
Lititz ...	3.33	1.95	31	8	2.41
Long Hill ...	2.50	2.40	30	2	2.31
Torrington ...	2.16	1.82	30	5	2.52
Bethlehem, St. Eliz. ...	2.39	1.47	30	3	2.84
Santa Cruz ...	3.32	2.80	30	5	2.04
Pedro Plains Police St. ...	2.16	1.30	30	8	1.63
Black River ...	1.90	1.00	30	5	1.88
Font Hill ...	1.31	0.74	30	3	2.04
Mount Edgecombe ...	1.45	0.72	30	3	...
Bluefields ...	1.62	0.55	30	5	1.82
Sweet River ...	1.94	0.92	15	5	1.83
Windsor, Sav.-la-mar ...	2.07	0.85	14	6	...
Orchard ...	2.21	1.08	31	4	1.62
Sav.-la-mar ...	2.55	2.05	30	2	1.67
Retreat ...	1.33	1.22	30	4	...
White Hall ...	2.12	1.81	30	6	1.34
Negril Point L.H ...					
Means ...	2.19	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

—	January.	
	1914.	Average.
	In.	In.
North-Eastern Division ...	3.45	7.15
Northern " ...	1.87	3.77
West-Central " ...	3.10	2.85
Southern " ...	2.19	1.81
The Island ...	2.65	3.90

The rainfall for January was below the average in the NE. and N. divisions. The heaviest rainfall, 16.20, fell at Moore Town in Portland, and no rain fell at Bull Bay, Halfway Tree, and Clifton Pen.

Rainfall at Grand Cayman, December, 1913.	Total Fall.	Greatest fall.		No. of days on which 0.01 or more fell.
		Amount.	Date	
	In.	In.		
East End ...	..	..	..	..
Bodden Town ...	..	...	...	..
George Town ...	..	..	..	..

Shocks of Earthquake in January, 1914.

D.	Mean time.		Intensity.	Notes: where felt, etc.
	hr.	min.		
12	...	...	I	Mt. Holstein, N. 0.006.
26		27 p.m.	I	Albion, St. Ann.
			...	

Plumb Point Light House—

Average No. of Miles of wind per diem 208
Greatest on the 6th 440
Least on the 20th 25

The Weather Office,
Halfway Tree P.O.

M WELL HALL,
Govt. Meteorologist.

Negril Point Light House Mea[illegible] Results for the Year 1913 Elevation. 33 ft.

Month. 1913.	Bar.		Temperature.						Estimates per Month.			Dew Point and Humidity				Rain-fall	Miles of Wind per diem.
	7 a.m.	3 p.m.	Mean	7 a.m.	3 p.m.		Min.	Range	Mean	Min.	Range	7 a.m.	7 a.m.	3 .p.m.	3 p.m.	inches	
	in	in															
January ..	30.009	29.955	76.6	72.4	82.1	84.6	69.3	15.3	87.8	[illegible]	23.4	66.0	81	70.3	68	0.55	*
February ..	.015	.966	75.9	72.0	81.8	84.4	67.4	17.0	86.8	62.2	[illegible]	66.0	81	71.9	72	0.60	—
March ..	30.029	.985	75.7	72.5	80.7	83.8	67.8	16.0	87.5	64.9	22.6	[illegible]	85	73.0	77	7.85	—*
April	29.964	.924	77.3	75.3	80.7	84.4	70.6	13.8	87.7	66.9	20.8	71.1	[illegible]	74.4	81	2.57	243
May ..	.960	.924	78.3	77.3	82.3	85.3	70.3	15.0	88.3	61.4	26.9	63.1	73	[illegible]	71	3.82	194
June ..	29.957	.941	79.6	78.5	83.2	86.0	72.5	13.5	88.4	69.8	18.6	69.5	74	72.3	[illegible]	1.34	204
July ..	30.000	.978	79.5	78.7	82.7	86.8	71.9	14.9	89.5	67.9	21.6	70.8	77	74.1	75	4.35	179
August ..	29.957	.926	79.8	78.3	84.1	86.7	72.2	13.5	89.3	68.6	20.7	70.9	78	75.1	75	6.10	192
September ..	.909	.871	80.1	78.5	83.9	86.7	73.3	13.1	89.3	71.3	18.0	71.5	78	74.2	73	3.31	204
October ..	.926	.876	79.6	77.5	84.2	86.4	72.3	14.1	88.5	69.0	19.5	71.9	82	76.3	77	5.58	186
November ..	.935	.890	78.5	76.1	82.6	85.5	71.6	13.9	88.5	68.2	20.3	69.0	78	72.3	71	2.05	233
December ..	29.967	29.921	76.6	73.0	81.6	84.2	69.6	14.6	86.6	62.6	24.0	66.5	80	69.7	67	1.16	211
Means ..	29.969	29.930	78.1	75.8	82.5	85.4	70.7	14.7	88.2	66.4	21.8	69.1	80	73.0	73	..	205

Total 39.48

* Anemometer damaged by hurricane of Novr. 1912: undergoing repairs.

Month 1913.	Wind: from and Miles per hour						Clouds: in teths.						Weather Conditions.
							Lower.		Middle.		Upper		
	7 A.M.		3 P.M.		11 P.M.		7 a.m	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	
		Miles.		Miles.		Miles.							
January ..	E	5.7	SE	12.2	ENE	–*	2.1	1.6	7.1	4.5	1.2	0.6	Fine 7, Cloudy , Overcast 9, Rain on 7 days, T L on 8th, T or L on a few days.
February ..	ESE	6.5	SSE	12.8	ESE	–*	1.4	3.6	0.5	2.7	0.4	0.0	Fine 9, Cloudy 6, Overcast 10, Rain on 3 days, Strong S. by winds on 27th 28th.
March .	ESE	5.3	SSE	14.2	E	–*	1.4	2.2	1.5	4.6	0.6	0.0	Fine 5, Cloudy 6, Ov rcast 7, Rain on 13 days, T ... L on a few days, Brisk S by winds early part of month.
April ..	E	8.6	E	9.8	ENE	9.0	1.5	2.7	1.1	4.5	2.0	0.0	...s T or L on a few days. Fine 4, Cloudy 8, Overcast 8, Rain on 10.
May ..	ESE	7.6	SE	10.7	ENE	6.1	2.7	3.9	0.4	4.2	3.5	0.7	...n 9 days, T L on 30th, T or L on Fine 2, Cloudy 8, Overcast 12, Ra... many days.
June ..	ESE	6.9	SE	11.3	E	6.4	5.3	6.7	0.7	3.1	1.8	0.0	...s, days T. L on 19th and 27th, T or L Cloudy 2, Overcast 15, R...y winds o n 24th and 25th.
July ..	E	8.0	ESE	9.3	E	6.9	1.9	4.2	1.0	5.3	1.7	0.0	on many days, High Rain on 17 days, T L T or L on many days. Cloudy 7. Overca...
August ..	ESE	7.0	SE	10.0	ENE	6.2	0.5	3.0	1.0	5.1	3.2	0.3	...y 8, Overcast 3, Rain on 17 days. TL. T or L on many Fine 3, C...
September ..	E	7.0	SE	12.0	E	6.2	1.6	2.8	1.3	5.7	3.6	0.6	...day 6, Overcast 14, Rain on 10 days. TL, T or L on many days.
October ..	E	8.0	SE	10.0	N.E	6.6	1.3	2.1	1.7	5.1	2.5	1.6	Fine 1, Cloudy 7, Overcast 8, Rain 15 days. TL T or L on many days. Squally 28th and 29th.
November ..	E	10.0	ESE	11.0	NE	9.4	2.0	2.3	2.0	3.9	1.1	0.3	Fine 2, Cloudy 3, Overcast 12, Rain on 13 days. TL on a few days Norther on 10 and 11th.
December ..	E	10.0	N	11.0	ENE	8.1	1.1	2.0					Fine 9, Cloudy 5, Overcast 10, Rain on 7 days. TL on 10th T on a few days.
Me n ..	E by S	7.6	SEbyE	11.2	E byN	7.9	...9	3.1	1.6	4.5	2.0	0.4	134 Rainy days for the year. Rainfall deficient.

* Anemometer disabled in hurricane of Nov.

M. H.

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JAMAICA

WEATHER REPORT

FOR THE MONTH OF

FEBRUARY, 1914.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	30.021	29.977	77.0	79.3	81.6	72.7	8.9	87.0	3	65.0	27	22
Kingston ..	24	29.993	29.938	70.0	83.5	87.2	68.5	18.7	91.4	9	61.7	23	29.7
Negril Point Light House ..	33	30.010	29.959	72.2	80.8	83.7	69.0	14.7	88.5	10	63.6	27	24.9
Castleton Gardens ..	496	..	..	64.8	80.9	84.8	60.2	24.6	90	7*	52	23	38
Hope Gardens† ..	668	30.005	29.918	69	84.3	87.1	65.3	21.8	91	8*	58	22	33
Stony Hill Indus. School ..	1,400	..	..	67.7	78.9	81.0	61.7	19.3	85	12*	58	23	27
Hill Gardens ..	4,900	25.311	25.263	60.5	62.5	65.5	52.5	13.0	72	9*	47	23	25

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction from and miles per hour.				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	72.3	85	72.7	80	0.69	345	ENE	18	ENE	14	1.5	2.4	0.3	0.4	3.9	0.6
Kingston ..	24	62.6	77	65.1	54	0.28	210	N by E	5.6	SE	15.2	1.0	1.8	0.4	2.9	2.7	0.2
Negril Point Light House‡ ..	33	64.8	78	68.2	66	1.83	233	ENE	9.3	SE	13.0	2.0	1.8	0.0	1.5	4.4	0.0
Castleton Gardens ..	496	62.7	93	68.1	..	4.25	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	62.7	81	63	48	0.52	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	62.2	82	67.3	67	0.80	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	55	80	58.6	86	2.69	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m. ENE 9.7

RAINFALL FOR FEBRUARY, 1914.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

North-Eastern Division.	February, 1914.				
	Total Fall.	Greatest fall in 24 hours. Amount	Greatest fall in 24 hours. Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	2.92	0.50	2	9	6.10
Ecclesdown ...	4.75	1.25	1	16	..
Spring Valley, Portland .	6.35	1.50	1	17	.
Bath ...	...	...	...	...	...
Boston ..	1.80	1.00	3	3	6.14
Moore Town ...	9.45	...	...	...	14.18
Port Antonio ...	5.21	1.40	16	14	6.19
Fellowship ...	6.16	1.10	15	21	11.77
Windsor, Portland ...	...	..	...	...	...
Johnson River Bridge ...	2.64	0.98	21	13	2.24
Shrewsbury ...	...	...	...	...	...
Cedar Valley, St. Thos. ...	2.10	0.73	21	7	2.76
Hope Bay ...	4.70	1.05	2	14	...
Moy Hall, St. Thos. ...	2.20	0.33	19	6	2.45
Lennox ...	6.89	1.50	9	19	..
Farm Hill ...	2.97	1.55	17	6	...
Hill Gardens ...	...	...	...	...	...
Buff Bay ...	5.19	1.13	16	11	7.74
Vinery ...	4.18	1.25	21	9	..
Windsor Castle, Port. ...	3.17	1.20	2	6	...
Greenvale, Portland ...	5.66	1.80	17	12	...
Mt. Holstein ...	4.02	2.75	7	13	7.46
Irish Town ...	1.00	1.00	21	1	...
Rose Hill ...	1.83	0.80	16	3	...
Hardwar Gap ...	2.50	...	...	...	3.45
Stony Hill Ind. School ...	0.80	0.25	21	6	2.22
Castleton Gardens ...	...	...	...	...	...
Lawrence Tavern ...	1.00	0.58	17	2	2.36
Cedar Valley, Red Hills ...	1.95	0.90	7	6	...
Carew Castle ...	2.04	0.95	17	6	1.84
Agualta Vale ...	2.28	0.75	21	12	...
Water Valley ...	2.71	0.96	21	12	5.73
Albany, Ry. Station ..	..	...	...	...	...
Platfield ...	0.76	0.50	16	3	...
Richmond, St. Mary ...	2.49	0.78	17	7	5.31
Hampstead, St. Mary ...	4.57	1.03	21	11	...
Troja ...	1.38	0.78	17	5	...
Lucky Hill ...	3.88	1.24	22	9	5.41
Rio Hoe ...	3.28	1.28	18	6	4.05
Unity Valley ...	1.68	0.74	17	6	3.60
Moneague ...	3.15	1.30	21	8	4.08
Claremont ...	1.23	0.72	17	3	4.58
Albion, St. Ann ...	1.45	0.62	17	6	3.59
Averham Park ...	2.22	1.51	17	5	4.50
Means ...	3.29	...	...	...	...

Northern Division.	February, 1914.				
	Total fall.	Greatest fall in 24 hours. Amount.	Greatest fall in 24 hours. Date.	Days on which 0.01 or more fell.	Average
	In.	In.			In.
Port Maria ...	2.29	0.48	2	12	5.95
Ocho Rios ...	0.94	0.56	2	3	3.85
Bogue, Ocho Rios ...	0.78	0.36	3	4	...
Drax Hall ...	1.90	0.50	2	8	4.47
St. Ann's Bay ...	1.64	0.42	1	10	4.88
Seville ...	1.86	0.49	16	7	4.29
Richmond Estate ...	1.41	0.53	21	5	4.33
Llandovery ...	1.38	0.30	8	6	4.57
Runaway Bay ...	0.35	0.20	8	2	...
Brown's Town ...	2.32	1.20	17	3	4.74
Alexandria ...	0.75	0.40	17	2	...
Chewmagna, St. Ann ...	0.60	0.40	17	3	3.21
Home Castle ...	0.19	0.14	21	2	3.16
Richmond Pen ...	...	...	...	...	...
Mahogany Hall ...	0.90	0.30	21	3	3.03
Barnstaple ...	..	...	...	...	...
Brampton Bryan ...	0.32	0.12	17	3	1.90
Bryan Castle ...	0.53	0.40	16	3	2.32
Braco ...	0.17	0.07	17	3	2.23
Arcadia ...	0.19	0.19	16	1	2.36
Lancaster ...	0.24	0.08	15	4	2.51
Harmony Hall ...	0.32	0.10	16	4	2.33
Vale Royal ...	0.57	0.47	16	2	2.72
Colchis Pen ...	0.46	0.41	17	2	1.74
Swanswick ...	0.60	0.40	17	3	...
Georgia ...	0.14	1.14	17	1	2.56
Long Pond ...	...	...	...	...	...
Hyde Hall ...	0.36	0.15	17	3	2.52
Steelfield ...	...	...	...	...	...
Etingdon ...	0.25	0.15	18	...	2.17
Lottery ...	0.45	0.30	17	3	2.01
Falmouth ...	...	...	...	...	...
Florence Hall ...	0.16	0.08	21	3	...
Unity ...	1.08	0.60	1	5	...
Kent ...	0.51	0.23	17	5	2.41
Gales Valley ...	0.25	0.25	1	1	2.05
Canaan ...	0.57	0.52	2	2	2.44
Content ...	...	...	...	...	...
Bellfield ...	0.33	0.21	22	2	...
Hampden ...	...	...	...	...	...
Moor Park ...	0.17	0.10	18	3	...
Guilsbro ...	0.18	0.10	1	3	2.09
Rose Hall ...	...	...	...	...	...
Montego Bay ...	...	...	...	...	...
Catherine Hall ...	...	...	...	...	...
Retirement ...	1.73	0.90	4	7	...
King Gate ...	...	...	...	..	...
Round Hill ...	...	...	...	...	...
Blue Hole ...	0.97	0.77	20	3	...
Haughton Court ...	1.06	0.30	20	6	...
Lucea ...	1.12	0.40	1	5	2.16
Green Island, Police St. ...	1.75	1.29	1	4	...
Central Sub-Division.					
Rio Magno ...	1.95	0.75	17	4	...
Headworks, Rio Cobre ...	1.18	0.75	21	4	1.63
Linstead ...	3.50	1.20	1	6	1.96
Berkshire Hall ...	1.35	0.61	6	5	...
Point Hill ...	3.94	1.72	1	10	3.85
Brown's Hall ...	1.70	0.80	2	4	2.66
Worthy Park ...	1.19	0.35	17	5	2.05
Croft Hill ...	...	...	...	...	...
Chapelton ...	2.00	1.04	1	6	1.80
Danks Works ...	1.50	0.50	5	7	1.85
Savoy House ...	1.54	0.57	5	9	1.74
Crooked River ...	1.76	1.00	5	5	...
Trout Hall ...	3.38	1.52	1	7	...
Cave Valley ...	1.20	0.60	1	3	2.20
Greenock ...	1.12	0.50	1	3	...
Means ...	1.05	...	...	...	...

West-Central Division.	February, 1914.				
	Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Whitney ...	...	...	...	...	...
Mocho, Clarendon ...	1.15	0.85	1	4	...
Baillieston ...	...	...	...	...	...
Brokenhurst ...	2.15	0.75	1	5	2.67
Christiana ...	0.80	0.34	1	7	2.75
Chudleigh ...	1.23	0.33	12	8	...
Shooter's Hill ...	2.11	0.91	13	6	...
Spitzbergen ...	1.29	0.45	1	7	...
Kendal, Manchester ...	2.96	1.20	13	5	2.59
Marshalls Pen ...	1.99	0.68	1	8	3.90
Mandeville ...	1.58	0.41	20	7	2.87
Carlton, Mandeville ...	1.04	0.30	20	6	...
The Hill ...	1.30	0.55	1	4	...
Fairfield, Manchester ...	1.13	0.33	13	8	3.11
Ulster Spring ...	0.50	0.20	17	4	2.76
Freeman's Hall ...	0.30	0.30	21	1	..
Albert Town ...	0.60	0.40	21	2	...
Lowe River ...	0.24	0.24	13	1	...
Troy ...	1.80	1.50	5	2	2.82
Windsor Pen, Trel. ...	1.72	1.34	3	5	2.36
Medina ..	0.87	0.32	1	5	...
Wallingford ...	2.18	1.28	1	5	...
Balaclava Police Station ...	1.38	0.83	1	7	2.29
Siloah ...	3.80	1.55	5	8	...
Appleton Estate ...	2.98	1.16	16	5	2.75
Maggotty ...	4.49	2.50	3	7	2.70
Butlers ...	3.70	1.40	5	5	...
Deeside ..	...	...	...	...	...
Spring Vale ...	...	...	...	...	...
Garland ...	3.12	1.32	7	4	...
Mocho, Catadupa ...	2.63	1.00	2	4	...
Springfield, St. Elizabeth	3.32	1.20	5	5	...
Chesterfield, St. James ...	2.30	0.83	1	6	...
Catadupa Rly. Station ...	...	.	...	...	...
Kempshot ...	0.98	0.41	4	7	3.00
Cambridge, St. James ...	3.19	2.05	1	7	...
Ducketts ...	3.92	2.54	1	6	...
Hazelymph ...	...	..	...	...	...
New Market, Police St. ...	4.43	1.27	5	6	...
The Bog, New Market ...	3.67	1.15	1	9	...
Kew Park ...	1.49	0.67	1	4	2.72
Montpelier ...	..	...	..	...	...
Knockalva ..	3.20	2.35	1	3	...
Ramble ...	3.32	2.10	1	4	...
Petersville ...	3.31	1.23	7	7	2.91
Darliston ...	5.95	1.24	5	10	3.63
Whithorn ...	...	...	...	...	...
Water Works ...	4.02	1.75	5	6	...
Great Valley, Han. ...	2.81	1.00	20	5	3.18
Prospect Park ...	4.42	1.50	1	6	...
Fontabelle, Westm. ...	2.07	0.82	21	6	2.62
Belleisle ...	1.92	0.60	12	4	2.40
Morgan's Bridge ...	2.06	1.30	1	5	2.43
King's Vale Police St. ...	1.50	0.96	24	6	2.72
Means ...	2.35	...	...	...	...

Southern Division.	February, 1914.				
	Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	0.69	0.14	8	10	2.74
Elliott Hill ...	3.12	0.81	1	22	...
Pleasant Hill ...	2.28	0.52	1	11	...
East Prospect ...	2.42	0.62	4	17	...
Morant Bay ...	1.33	0.40	1	12	2.03
Easington ...	0.69	0.40	13	2	1.52
Bull Bay ...	0.32	0.32	21	1	0.53
Bellevue ...	...	...	...	...	..
Gordon Town ...	0.50	0.50	21	1	1.76
Hope Gardens ...	...	...	...	...	...
King's House Gardens ...	0.62	...	...	...	1.55
Halfway Tree ...	0.20	0.20	21	1	0.88
Lunatic Asylum ...	0.40	0.20	21	3	0.54
Parade Gardens ...	...	...	...	...	...
Kingston S. Camp Road ...	0.50	0.21	18	4	..
" P. W. Office ..	0.28	0.15	18	2	0.67
Plumb Point L. H. ...	0.27	0.12	21	4	0.72
Clifton Pen ...	0.32	0.32	21	1	...
Quarantine Station ...	0.05	0.05	3	1	...
Spanish Town ...	1.63	1.51	2	3	1.34
Hog Hole, St. Catherine...	1.54	0.72	2	4	...
Hartlands ...	0.20	0.20	2	1	...
Belmont, Guanaboa Vale	2.44	1.07	5	8	...
Old Harbour ...	2.46	2.26	2	2	1.81
May Pen ...	1.99	0.65	1	6	1.76
Dunkley's, Vere ...	2.62	2.40	2	2	1.17
Dry River " ...	2.13	1.91	2	3	...
Denbigh ...	0.90	0.40	2	3	1.40
Toll Gate ...	0.79	0.46	1	3	...
Woodleigh ...	1.10	0.50	2	3	...
New Yarmouth ...	2.01	1.66	2	2	7.02
Exeter, Vere ...	1.25	0.75	2	3	...
Rhymesbury ...	1.04	0.76	2	3	1.37
Milk River ...	2.40	1.70	2	3	1.64
Clarendon Pk. Ry. St. ...	...	...	...	...	..
Victoria Town ...	0.94	0.60	3	2	1.91
Hog Hole, S. Manch. ...	1.67	0.65	21	4	...
Stone's Hope ...	1.15	0.36	1	4	2.22
Newport, Manchester ...	2.41	0.00	1	7	2.94
Great Valley, Man. ...	1.65	0.61	21	5	2.48
Alligator Pond ...	0.90	...	...	0	1.20
Southfield, St. Elizabeth ...	0.68	0.22	2	4	...
Lititz ...	..	...	...	...	...
Long Hill ...	1.61	0.90	15	6	1.88
Torrington ...	2.66	0.88	2	4	2.52
Bethlehem, St. Eliz. ...	1.35	0.58	15	5	2.53
Santa Cruz ...	0.62	0.45	16	3	2.48
Pedro Plains Police St. ...	0.34	0.28	2	3	1.43
Black River ...	1.02	0.70	1	6	1.78
Font Hill ...	...	...	...	...	...
Mount Edgecombe ...	3.45	1.24	1	9	2.43
Bluefields ...	3.12	1.82	5	3	...
Sweet River ...	1.37	0.60	21	6	2.32
Windsor, Sav.-la-mar ...	1.74	0.54	22	6	2.34
Orchard ...	1.76	0.73	20	4	...
Sav.-la-mar ...	3.32	2.30	21	5	2.00
Retreat ...	3.01	1.50	5	6	2.36
White Hall ...	3.44	1.24	1	6	...
Negril Point L.H ...	1.83	0.55	5	9	1.54
Means ...	1.33	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

—	February.	
	1914.	Average.
	In.	In.
North-Eastern Division ...	3.29	5.29
Northern " ...	1.05	2.55
West-Central " ...	2.35	2.76
Southern " ...	1.53	1.67
The Island ...	2.06	3.07

The heaviest rainfall, 9.45 inches, was recorded at Moore Town. No rain fell at Alligator Pond.

Rainfall at Grand Cayman, December, 1913.	Total Fall.	Greatest fall.		No. of days on which 0.01 or more fell.
		Amount.	Date	
	In.	In.		
East End ...	..	..	..	..
Bodden Town ...	..	...	...	..
George Town ...	..	..	..	..

Shocks of Earthquake in February, 1914.

Date.	Mean time.	Intensity.	Notes: where felt, etc.
	hr. min.		
4	10 45 p.m.	I	Mt. Holstein, N. 005.
8	5 00 a.m.	I	Siloah & Butlers.
9	3 30 a.m.	I	Mt. Edgecombe.
10	4 45 a.m.	II	Great Valley, Hanover, E. double shock.
„	5 40 a.m.	I	Halfway Tree and Unity Valley, N.W. 002.
12	7 00 p.m.	I	Halfway Tree N.E. 002.
14	9 00 a.m.	I	Great Valley, Hanover.
25	7 10 a.m.	I	Halfway Tree, NNE. 002.
26	2 20 a.m.	I	Halfway Tree.
28	7 30 a.m.	I	Halfway Tree and Great Valley, Hanover.

Plumb Point Light House—

Average No. of Miles of wind per diem	173
Greatest on the 10th	401
Least on the 17th	71

CORRIGENDA.

W.R. 426 p. 5 Seventh and Tenth columns: For Mean read Max.

The Weather Office,
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

Morant Point Light House. Mean Results for the year 1913. Elevation 8 ft.

Month. 1913.	Bar. Pressure.		Temperature.						Extremes for Month.			Dew Point and Humidity.				Rain-fall.	Miles of Wind per diem.
	7 a.m.	3 p.m.	Mean	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Min.	Range	7 a.m.	7 a.m.	3 .p.m.	3 p.m.	inches.	
	in.	in.	°	°	°	°	°	°	°	°	°	°	°	°	°		
January ..	30.029	29.986	76.8	77.3	80.0	81.7	70.1	11.6	84.0	61.0	23.0	71.7	82.6	71.6	75.0	2.81	
February ..	30.029	29.992	76.4	75.0	79.4	81.6	71.4	10.2	82.5	64.0	18.5	70.0	84.0	72.3	80.0	1.17	
March ..	30.044	30.007	75.8	76.7	80.1	82.5	75.8	6.7	85.0	67.0	18.0	72.5	81.5	72.1	76.6	1.70	
April	29.973	29.943	76.8	76.0	79.3	81.6	72.2	9.4	83.5	66.5	17.0	70.9	84.0	71.4	77.1	9.08	283
May ..	29.977	29.945	77.7	77.6	80.1	82.2	72.8	9.4	84.0	67.0	17.0	71.5	82.0	68.9	71.0	4.50	309
June ..	29.988	29.968	80.0	79.9	82.0	83.9	76.3	7.6	85.0	73.0	20.0	73.8	81.7	75.3	80.0	1.77	365
July ..	30.002	29.997	80.4	79.9	82.8	84.7	76.3	8.4	86.0	71.0	15.0	71.7	76.0	75.0	77.3	3.46	316
August ..	29.970	29.941	80.2	80.1	81.8	85.0	75.8	9.2	86.5	69.0	17.5	75.3	86.0	77.0	85.6	9.92	230
September ..	29.927	29.887	80.4	80.2	82.8	85.0	75.5	9.5	87.0	70.5	16.5	74.5	82.0	75.6	76.6	11.52	253
October ..	29.938	29.889	79.6	78.4	83.3	84.4	74.5	9.9	86.0	67.0	19.0	74.0	86.6	75.5	77.6	6.74	239
November ..	29.938	29.893	79.0	78.7	81.6	83.3	74.2	9.1	85.5	66.0	19.5	73.3	83.6	74.3	78.5	6.13	322
December ..	29.979	29.935	77.4	70.1	81.6	81.6	72.3	9.3	83.0	65.0	18.0	70.5	83.0	70.0	72.0	4.50	265
Means ..	29.981	29.949	78.5	78.0	81.2	83.1	73.9	9.2	84.8	67.2	19.6	72.5	83.0	73.2	77.3		

Total 63.30

Mean Results continued. Morant Point Light House.

Month 1913.	Wind: from and Miles per hour				Clouds: in tenths.						Weather Conditions.
	7 A.M.		3 P.M.		Lower.		Middle.		Upper.		
					7 a.m	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	
January ..	var.	13.6	var.	14.0	1.5	1.0	2.4	1.9	2.4	2.3	
February ..	E	11.2	E	10.2	1.0	1.0	2.0	1.7	2.2	2.0	
March ..	ESE	16.4	ESE	16.5	1.2	0.4	2.5	1.8	2.3	2.1	
April ..	var.	11.5	var.	12.0	2.0	1.1	2.2	2.2	2.5	2.3	
May ..	E	9.9	E	12.6	1.5	1.3	2.6	2.2	2.4	2.5	
June ..	ESE	12.9	ESE	15.7	1.4	1.6	2.1	2.0	2.9	2.4	
July ..	E	9.4	E	13.6	1.2	0.7	2.2	2.1	2.6	2.5	
August ..	E	9.5	E	11.0	1.5	1.1	2.3	2.1	2.3	2.1	
September ..	ESE	7.3	ESE	9.2	1.2	1.0	2.5	2.0	2.6	2.8	
October ..	E	7.0	E	9.1	1.2	0.5	1.8	1.5	2.5	2.4	
November ..	ENE	11.2	ENE	13.8	1.5	1.5	2.4	1.9	2.6	2.5	
December ..	NE	8.2	NE	10.9	1.0	0.6	2.0	1.7	2.2	2.3	
Mean ..	Estly	10.7	Estly.	12.4	1.3	1.0	2.2	1.9	2.5	2.3	

M. H.

51.05
JA

No. 428.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

MARCH, 1914.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	30.004	29.965	75.9	79.2	81.2	71.8	9.4	85.0	1*	63.0	1	22.0
Kingston ..	24	29.987	29.936	71.5	83.9	87.3	69.0	18.3	90.3	10	65.4	4	24.9
Negril Point Light House ..	33	30.001	29.957	72.9	80.4	83.2	69.6	13.6	85.8	12	63.5	18	22.3
Castleton Gardens ..	496	..	..	66.1	80	84	61.6	22.4	90	7	52	4	38
Hope Gardens† ..	668	29.980	29.901	69.6	81.9	85.8	65.5	20.3	90	21	61	2	29
Stony Hill Indus. School ..	1,400	..	..	67.7	76.8	79.5	62.6	16.9	83	5*	57	3*	26
Hill Gardens ..	4,900	25.294	25.256	60.3	63	67	52.8	14.2	73	21	48	1	25

Stations	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction from and miles per hour.				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	75.4	97	78.2	97	2.30	326	ENE	16.2	NE by E	14.3	2.4	2.7	0.3	2.0	3.5	0.9
Kingston ..	24	64.5	79	67.0	57	0.56	178	N	4.7	SE	11.6	1.4	2.0	0.1	2.7	3.8	0.4
Negril Point Light House‡ ..	33	66.0	79	68.9	68	4.67	272	NE	10.3	NE	14.9	2.2	0.5	0.4	3.1	3.2	0.3
Castleton Gardens ..	496	63.6	93	74.1	82	2.46	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	62	76	65.8	58	0.82	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	62.7	84	69.5	78	1.86	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens .	4,900	55.6	87	58.4	84	2.50	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m. NE 11.1

RAINFALL FOR MARCH, 1914.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	MARCH, 1914. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	3.29	1.27	12	10	3.26
Ecclesdown ...	15.12	6.75	19	20	.
Spring Valley, Portland ...	7.78	1.35	27	13	.
Bath ..	4.27	1.15	12	15	4.57
Boston ...	3.40	1.80	10	3	5.10
Moore Town ...	10.40	...	..	...	10.97
Port Antonio ...	7.05	1.78	18	17	4.90
Fellowship ...	9.80	3.20	27	20	8.09
Windsor, Portland ...	10.86	2.22	29	17	...
Johnson River Bridge ...	1.59	0.32	12	14	2.59
Shrewsbury ...	12.55	1.90	10	15	...
Cedar Valley, St. Thos. ...	2.40	0.86	14	8	3.30
Hope Bay ...	10.60	2.20	17	19	..
Moy Hall, St. Thos. ..	1.35	0.50	29	5	3.01
Lennox ...	17.85	4.35	17	18	..
Farm Hill ...	3.10	0.80	24	10	...
Hill Gardens ...	2.50	...	...	...	...
Buff Bay ...	13.50	2.40	19	16	5.79
Vinery ...	12.80	2.80	19	17	..
Windsor Castle, Port. ...	8.56	2.12	19	9	...
Greenvale, Portland ...	18.80	4.51	10	17	...
Mt. Holstein ...	5.25	1.07	29	22	9.53
Irish Town ..	2.12	0.92	30	6	...
Rose Hill ...	3.62	1.50	11	5	...
Hardwar Gap ...	2.50	..	...	...	...
Stony Hill Ind. School ...	1.86	0.70	16	11	2.99
Castleton Gardens ...	2.46	...	...	.	...
Lawrence Tavern ...	0.98	0.48	22	3	...
Cedar Valley, Red Hills ...	3.11	0.60	16	10	...
Carew Castle ...	1.76	0.54	12	10	3.92
Agualta Vale ...	8.80	3.00	19	14	...
Water Valley ...	7.73	4.00	19	12	5.60
Albany, Ry. Station ..	..	...	...	...	...
Platfield ...	1.04	0.36	11	7	...
Richmond, St. Mary ..	3.13	0.70	11	14	3.75
Hampstead, St. Mary ...	11.45	4.07	19	14	...
Troja ...	3.20	1.40	10	4	...
Lucky Hill ...	5.10	2.17	20	5	...
Rio Hoe ...	1.57	0.33	12	9	3.64
Unity Valley ...	1.19	0.20	11	13	3.64
Moneague ...	1.55	0.40	16	8	3.03
Claremont ...	4.02	1.72	16	6	3.43
Albion, St. Ann ...	1.87	0.30	10	12	3.61
Averham Park ...	3.37	0.60	16	12	3.81
Means ...	6.36	...	...	...	...

NORTHERN DIVISION.	MARCH, 1914. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average
	In.	In.			In.
Port Maria ...	3.79	1.07	26	10	3.15
Ocho Rios ...	3.52	1.17	16	9	3.54
Bogue, Ocho Rios ...	5.77	2.20	16	9	...
Drax Hall ...	3.60	0.90	7	12	3.21
St. Ann's Bay ...	5.17	1.35	7	15	2.40
Seville ...	4.27	0.85	7	13	3.07
Richmond Estate ...	3.88	0.62	7	13	2.63
Llandovery ...	3.38	0.52	17	9	2.80
Runaway Bay ...	3.80	1.50	7	9	...
Brown's Town ...	5.56	1.51	8	8	2.99
Alexandria ...	0.25	0.15	20	2	...
Chewmagna, St. Ann ...	0.96	0.40	1	4	3.37
Home Castle ...	5.69	1.55	8	9	2.56
Richmond Pen ...	1.95	0.80	15	4	2.42
Mahogany Hall ...	..	...	...	...	...
Barnstaple ...	4.09	1.16	15	7	...
Brampton Bryan ...	5.59	1.15	26	11	1.88
Bryan Castle ...	5.69	1.26	26	10	1.88
Braco ...	3.40	1.00	27	9	1.62
Arcadia ...	6.05	1.05	26	10	1.84
Lancaster ...	6.96	2.25	14	11	1.92
Harmony Hall ...	5.90	1.70	14	14	1.74
Vale Royal ...	7.12	1.32	27	9	2.28
Colchis Pen ...	0.84	0.30	27	6	2 02
Swanswick ...	2.36	0.96	8	6	...
Georgia ...	6.82	1.10	7	13	...
Long Pond ...	...	...	...	...	...
Hyde Hall ...	4.14	1.06	28	9	...
Steelfield ...	...	...	...	...	...
Etingdon ...	7.15	1.55	28	13	1.77
Lottery ...	7.40	3.70	7	12	2.00
Falmouth ...	...	...	...	...	...
Florence Hall ...	6.95	3.04	7	10	...
Unity ...	1.62	0.41	1	7	..
Kent ...	...	...	...	...	...
Gales Valley ...	6.44	4.60	4	7	2.35
Canaan ...	6.33	4.20	7	8	2.23
Content ...	...	...	...	...	...
Bellfield ...	6.05	2.85	7	11	...
Hampden ...	...	...	...	...	...
Moor Park ...	4.56	2.00	14	7	...
Rose Hall ...	...	...	...	...	...
Montego Bay ...	...	...	...	...	...
Catherine Hall ...	...	...	...	...	...
Retirement ...	3.34	1.10	7	8	...
King Gate ...	...	...	...	...	...
Round Hill ...	8.30	8.00	8	6	...
Blue Hole ...	5.53	4.00	7	8	...
Haughton Court ...	...	...	...	...	...
Lucea ...	2.04	1.57	7	3	2.33
Green Island, Police St. ...	4.59	2.29	23	7	...
CENTRAL SUB-DIVISION.					
Rio Magno ...	...	...	...	...	...
Headworks, Rio Cobre ...	1.88	0.77	14	7	2.84
Linstead ...	1.83	0.40	15	8	3.06
Berkshire Hall ...	0.99	0.53	11	6	2.96
Point Hill ...	4.13	2.13	12	15	5.25
Brown's Hall .	3.87	1.06	12	9	4.49
Worthy Park ...	4.06	1.60	14	8	2.84
Croft Hill ...	2.66	1.00	14	5	...
Chapelton ...	1.20	0.39	12	5	2.70
Danks Works ...	1.96	0.97	14	5	3.26
Savoy House ...	2.07	1.29	14	4	4.07
Crooked River ...	3.87	2.40	14	6	...
Trout Hall ...	3.93	2.63	14	7	..
Cave Valley ...	0.76	0.36	1	...	2.90
Greenock ...	...	...	...	...	...
Means ...	3.98	...	...	...	...

WEST-CENTRAL DIVISION.	MARCH, 1914.				
	Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Whitney ...	2.95	1.65	15	4	...
Mocho, Clarendon ...	3.52	1.30	14	5	...
Baillieston ...	...	...	...	...	...
Brokenhurst ...	3.35	1.70	14	8	...
Christiana ...	3.03	2.09	14	10	4.06
Chudleigh ...	3.54	1.94	14	10	...
Shooter's Hill ...	1.70	0.73	14	7	...
Spitzbergen ...	3.19	2.37	14	9	...
Kendal, Manchester ...	1.77	0.76	14	4	3.44
Marshalls Pen ...	3.01	1.05	11	8	3.85
Mandeville ...	2.92	1.15	14	11	4.28
Carlton, Mandeville ...	2.36	0.73	14	9	...
The Hill ...	3.28	2.01	14	7	...
Fairfield, Manchester ...	3.29	0.69	30	15	3.48
Ulster Spring ...	1.67	0.50	15	6	3.40
Freeman's Hall ...	2.27	0.75	12	6	..
Albert Town ...	3.15	1.06	12	6	...
Lowe River ...	1.10	0.77	1	2	...
Troy ...	3.70	1.40	12	7	6.17
Windsor Pen, Trel. ...	3.23	2.05	27	9	3.07
Medina ...	3.30	1.02	14	11	...
Wallingford ...	3.84	2.02	14	9	...
Balaclava Police Station ...	5.01	2.00	14	10	4.74
Siloah ...	3.47	1.30	22	7	...
Appleton Estate ...	3.09	0.74	22	11	5.47
Maggotty ...	6.46	2.30	12	13	5.80
Butlers ...	8.10	1.25	27	10	...
Deeside ..	...	...	...	...	...
Spring Vale ...	4.50	2.20	7	6	2.92
Garland ...	4.20	1.50	30	7	...
Mocho, Catadupa ...	3.96	2.17	30	4	...
Springfield, St. Elizabeth	6.38	1.52	26	9	...
Chesterfield, St. James ...	...	...	...	...	...
Catadupa Rly. Station ...	...	...	...	...	...
Kempshot ...	3.70	0.98	7	9	3.00
Cambridge, St. James ...	4.24	2.00	27	10	...
Ducketts ...	...	...	...	...	...
Hazelymph ...	...	..	...	...	...
New Market, Police St. ...	4.24	1.12	26	9	...
The Bog, New Market ...	5.69	1.78	27	12	...
Kew Park ...	2.04	1.14	27	10	...
Knockalva ..	4.19	1.38	14	9	..
Ramble ...	3.96	1.43	27	7	...
Petersville ...	6.48	1.72	27	13	5.18
Darliston ...	5.35	1.54	29	10	6.54
Bluefields ...	4.49	1.42	27	12	9.07
Whithorn ...	3.90	1.10	27	12	5.87
Water Works ...	3.20	1.05	27	13	...
Great Valley, Han. ...	5.20	2.00	8	6	3.79
Prospect Park ...	2.43	1.00	27	7	...
Fontabelle, Westm. ...	3.90	1.10	27	11	3.94
Belleisle ...	4.77	1.23	27	9	3.38
Morgan's Bridge ...	6.56	3.30	27	10	4.75
King's Vale Police St. ...	5.48	2.21	23	9	4.91
Means ...	3.80	...	...	...	...

SOUTHERN DIVISION.	MARCH, 1914.				
	Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	2.30	0.93	16	13	2.11
Elliott Hill ...	2.48	0.57	13	18	...
Pleasant Hill ...	1.97	0.61	12	8	...
East Prospect ...	1.74	0.56	12	15	...
Morant Bay ...	1.67	0.43	12	11	1.79
Easington ...	0.95	0.43	14	6	2.94
Bull Bay ...	0.65	0.50	14	2	...
Bellevue ...	1.74	1.78	14	9	..
Gordon Town ...	2.14	0.85	30	5	...
Hope Gardens ...	0.82	...	...	...	...
King's House Gardens ...	2.07	...	...	...	...
Halfway Tree ...	1.20	1.20	30	1	...
Lunatic Asylum ...	0.35	0.15	23	4	0.97
Parade Gardens ...	...	...	...	...	...
Kingston S. Camp Road ...	0.28	0.12	23	6	..
" P. W. Office ..	0.56	0.43	30	7	1.05
Plumb Point L. H. ...	0.52	0.20	31	6	...
Clifton Pen ...	0.17	0.11	30	2	...
Quarantine Station ...	1.00	0.42	14	4	...
Spanish Town ...	1.35	0.62	30	6	2.10
Hog Hole, St. Catherine...	1.20	0.52	30	6	2.12
Hartlands ...	4.60	1.50	28	9	1.75
Belmont, Guanaboa Vale	1.54	0.42	15	9	...
Old Harbour ...	5.50	3.60	14	5	2.20
May Pen ...	1.17	0.54	14	4	2.01
Dunkley's, Vere ...	0.78	0.58	14	3	1.49
Dry River " ...	1.43	0.75	13	3	...
Denbigh ...	0.00	...	...	0	2.06
Toll Gate ...	2.91	0.98	14	7	...
Woodleigh ...	0.00	...	...	0	...
New Yarmouth ...	1.30	0.94	14	3	1.26
Exeter, Vere ...	...	...	...	...	...
Rhymesbury ...	1.57	1.00	14	5	2.11
Milk River ...	4.20	1.50	14	6	1.66
Clarendon Pk. Ry. St. ...	3.44	1.40	14	8	..
Victoria Town ...	2.24	1.00	14	5	2.14
Hog Hole, S. Manch. ...	1.85	0.73	15	5	...
Stone's Hope ...	1.06	0.22	30	7	2.64
Newport, Manchester ...	2.19	0.97	14	10	3.03
Great Valley, Man. ...	1.18	0.42	17	7	2.23
Alligator Pond ...	0.41	0.35	1	2	1.73
Southfield, St. Elizabeth ...	3.47	1.30	28	10	...
Lititz ...	3.39	1.70	28	9	...
Long Hill ...	5.53	1.80	28	13	4.02
Torrington ...	2.15	0.75	14	5	3.47
Bethlehem, St. Eliz. ...	4.04	1.45	29	10	4.25
Santa Cruz ...	5.30	1.48	29	14	4.26
Pedro Plains Police St. ...	0.93	0.24	13	7	2.34
Black River ...	3.37	1.21	29	12	2.59
Font Hill ...	...	...	...	...	...
Mount Edgecombe ...	3.30	0.92	27	11	4.10
Sweet River ...	3.15	0.60	27	11	3.54
Windsor, Sav.-la-mar ...	2.18	0.45	28	14	2.90
Orchard ...	1.67	0.42	27	9	...
Sav.-la-mar ...	2.09	0.56	27	9	2.63
Retreat ...	3.16	0.78	27	9	...
White Hall ...	7.19	2.16	27	13	...
Negril Point L.H ...	4.67	1.62	13	14	2.34
Means ...	2.24	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

	March.	
	1914.	Average.
	In.	In.
North-Eastern Division ...	6.36	4.61
Northern " ...	3.98	2.36
West-Central " ...	3.80	4.18
Southern " ...	2.24	2.22
The Island ...	3.84	3.34

The heaviest rainfall, 18.80 inches, was recorded at Greenvale, Portland. No rain fell at Denbigh and Woodleigh.

Rainfall at Grand Cayman, December, 1913.

	Total Fall.	Greatest fall. Amount.	Greatest fall. Date	No. of days on which 0.01 or more fell.
	In.	In.		
East End ...	..	..	..	..
Bodden Town ...	..	...	...	..
George Town ...	..	..	..	..

Shocks of Earthquake in March, 1914.

Date.	Mean time.	Intensity.	Notes: where felt, etc.
	hr. min.		
2	12 40 a.m.	I	Albion, St. Ann.
16	12 00 a.m.	I	Mt. Holstein, E. 007.
20	1 10 a.m.	I	Lititz.
28	During night.	I	Mt. Holstein, S.E. 006.

Plumb Point Light House—

Average No. of Miles of wind per diem	164
Greatest on the 2nd	386
Least on the 18th	40

The Weather Office,
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

51.05
JA

UNIVERSITY OF ... JUN 191...

No. 429.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

APRIL, 1914.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.941	29.846	78.5	80.9	83.3	73.8	9.5	86.0	7	66.0	3	20.0
Kingston ..	24	29.960	29.914	74.9	83.1	87.3	71.4	15.9	90.3	26	68.6	1*	21.7
Negril Point Light House ..	33	29.966	29.924	76.9	81.4	84.5	70.9	13.6	86.7	22	65.5	25	21.2
Castleton Gardens ..	496	..	..	67.1	80.9	84.9	63.4	21.5	91	6	60	3*	31
Hope Gardens† ..	668	29.968	29.882	73.	82.3	86.7	67.7	19.0	92	5	65	1*	27
Stony Hill Indus. School ..	1,400	..	..	70.0	78.9	80.6	63.9	16.7	87	6	60	2	27
Hill Gardens ..	4,900	25.295	25.246	61.8	63.9	67.9	55.4	12.5	73	6	52	2	21

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction from and miles per hour.				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	73.6	83	74.0	79	2.48	256	ENE	15.2	E by N	11.4	2.5	2.2	2.1	2.4	2.2	2.4
Kingston ..	24	66.2	77	69.8	64	0.95	198	NE	4.5	SE	14.2	0.8	0.8	3.5	4.6	1.5	1.5
Negril Point Light House‡ ..	33	69.9	79	71.6	72	4.00	202	E	7.3	SSE	12.1	2.9	0.2	2.1	4.1	4.5	0.0
Castleton Gardens ..	496	65	93	71	72	5.27	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	64	73	67.8	62	1.98	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	64.7	83	72.4	80	4.41	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens .	4,900	57.5	80	60.7	90	1.80	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m. ENE 7 5

RAINFALL FOR APRIL, 1914.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	APRIL, 1914. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	4.76	1.85	19	9	6.32
Ecclesdown ...	10.15	2.90	20	16	.
Spring Valley, Portland ...	8.08	1.18	29	14	.
Bath ..	6.82	1.00	29	20	5.65
Boston ...	4.80	2.20	29	6	5.68
Moore Town ...	9.80	...	...	...	9.77
Port Antonio ...	7.83	2.21	29	17	6.27
Fellowship ...	6.88	1.54	30	16	9.24
Windsor, Portland ...	13.72	2.64	19	14	...
Johnson River Bridge ...	4.12	1.16	20	18	4.38
Shrewsbury ...	7.34	1.00	21	14	...
Cedar Valley, St. Thos. ...	2.23	0.40	20	10	3.94
Hope Bay ...	5.60	1.55	20	17	...
Moy Hall, St. Thos. ...	3.15	1.00	19	13	3.71
Lennox ...	6.40	1.00	21	14	..
Farm Hill ...	5.71	1.90	30	12	...
Hill Gardens ...	4.80	...	...	...	6.09
Buff Bay ...	4.62	1.48	21	7	5.73
Vinery ...	...	...	...	..	..
Windsor Castle, Port. ...	...	..	...	...	...
Greenvale, Portland ...	6.87	1.50	18	15	...
Mt. Holstein ...	5.82	1.82	18	20	6.00
Irish Town ...	2.79	1.46	30	4	...
Rose Hill ...	9.14	2.00	11	11	...
Hardware Gap ...	7.00	..	...	...	...
Stony Hill Ind. School ...	4.41	1.58	30	12	5.24
Castleton Gardens ...	5.27	...	...	...	6.80
Lawrence Tavern ...	2.35	1.13	28	6	...
Cedar Valley, Red Hills ...	5.27	2.82	30	12	...
Carew Castle ...	4.20	1.40	20	12	5.05
Agualta Vale ...	3.40	1.20	18	7	...
Water Valley ...	2.43	0.70	23	11	4.78
Albany, Ry. Station ..	..	...	...	...	...
Platfield ...	5.44	2.21	18	14	...
Richmond, St. Mary ...	3.12	0.67	23	12	4.45
Hampstead, St. Mary ...	3.90	0.78	22	11	...
Troja ...	5.45	3.20	18	8	...
Lucky Hill ...	3.40	0.92	23	10	...
Rio Hoe ...	3.96	0.98	18	10	4.38
Unity Valley ...	5.21	1.25	29	13	4.61
Moneague ...	4.64	1.35	18	10	4.04
Claremont ...	6.38	1.77	10	10	3.80
Albion, St. Ann ...	5.19	1.09	18	15	4.38
Averham Park ...	5.58	0.96	20	13	4.73
Means ...	5.68	...	...	...	...

NORTHERN DIVISION.	APRIL, 1914. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average,
	In.	In.			In.
Port Maria ...	4.02	0.97	23	10	3.88
Ocho Rios ...	4.50	0.81	23	9	2.83
Bogue, Ocho Rios ...	5.51	1.25	14	9	...
Drax Hall ...	4.10	0.75	15	12	3.21
St. Ann's Bay ...	3.85	0.62	13	14	3.06
Seville ...	3.90	0.67	19	11	2.79
Richmond Estate ...	3.54	0.93	19	9	3.38
Llandovery ...	2.35	1.04	19	7	3.39
Runaway Bay ...	0.85	0.40	29	4	...
Brown's Town ...	2.20	0.48	23	10	3.28
Alexandria ...	3.20	1.90	2	5	...
Chewmagna, St. Ann ...	9.54	3.40	26	12	2.87
Home Castle ...	1.00	0.50	19	2	3.23
Richmond Pen ...	5.65	1.45	26	8	3.47
Mahogany Hall ...	3.06	1.45	8	6	3.80
Barnstaple ...	1.96	1.09	8	4	...
Brampton Bryan ...	1.24	0.64	19	4	2.13
Bryan Castle ...	1.20	0.50	19	4	2.12
Braco ...	0.70	0.30	19	4	2.21
Arcadia ...	1.35	0.99	19	3	2.28
Lancaster ...	1.02	0.45	18	4	2.26
Harmony Hall ...	0.95	0.35	9	6	2.07
Vale Royal ...	1.79	0.99	19	4	2.84
Colchis Pen ...	2.34	1.00	8	11	3.08
Swanswick ...	1.68	1.05	8	6	...
Georgia ...	2.46	1.05	19	6	2.37
Long Pond ...	...	...	...	...	...
Hyde Hall ...	...	...	...	...	...
Steelfield ...	...	...	...	...	...
Etingdon ...	2.50	1.05	19	5	1.72
Lottery ...	2.15	1.10	8	5	2.30
Falmouth ...	...	...	...	...	...
Florence Hall ...	1.26	0.78	18	3	...
Unity ...	5.92	1.46	4	12	...
Kent ...	1.90	0.95	18	4	2.39
Gales Valley ...	2.75	1.60	8	4	3.37
Canaan ...	2.22	0.62	22	8	3.62
Content ...	...	...	...	...	...
Bellfield ...	1.16	0.62	8	6	...
Hampden ...	...	...	...	...	...
Moor Park ...	1.12	0.40	8	4	...
Rose Hall ...	...	...	...	...	...
Montego Bay ...	...	...	...	...	...
Catherine Hall ...	...	...	...	...	...
Retirement ...	2.69	1.60	9	11	...
King Gate ...	...	...	...	...	...
Round Hill ...	0.80	0.20	27	5	2.68
Blue Hole ...	2.33	1.84	8	3	...
Haughton Court ...	...	...	...	..	...
Lucea ...	2.46	1.40	12	5	4.07
Green Island, Police St. ...	3.90	0.84	12	11	3.68
CENTRAL SUB-DIVISION.					
Rio Magno ...	...	...	...	...	...
Headworks, Rio Cobre ...	5.60	2.25	30	8	3.62
Linstead ...	2.38	0.45	23	10	4.43
Berkshire Hall ...	5.46	2.15	18	12	...
Point Hill ...	9.16	4.30	30	17	6.07
Brown's Hall ...	7.93	3.21	30	10	4.17
Worthy Park ...	2.33	0.94	30	9	3.44
Croft Hill ...	0.35	0.35	30	1	...
Chapelton ...	2.49	0.93	30	9	3.75
Danks Works ...	2.42	0.90	30	8	4.69
Savoy House ...	2.53	0.85	30	8	4.09
Crooked River ...	4.98	1.35	30	7	...
Trout Hall ...	3.65	1.43	30	9	..
Cave Valley ...	5.02	2.57	30	5	4.94
Greenock ...	5.46	2.65	30	5	...
Means ...	3.09	...	...	...	...

WEST-CENTRAL DIVISION.	APRIL, 1914.				
	Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Whitney ...	2.10	0.50	30	8	...
Mocho, Clarendon ...	...	...	...	...	...
Baillieston ...	...	...	...	...	...
Brokenhurst ...	3.35	1.71	14	8	5.25
Christiana ...	3.81	1.19	29	12	8.10
Chudleigh ...	2.40	0.78	29	10	...
Shooter's Hill ...	3.32	1.83	29	9	...
Spitzbergen ...	3.31	1.22	29	8	...
Kendal, Manchester ...	5.07	1.49	29	7	7.44
Marshalls Pen ...	2.11	0.47	25	7	5.90
Mandeville ...	2.03	0.45	7	13	5.96
Carlton, Mandeville ...	2.16	0.49	29	8	...
The Hill ...	1.50	0.53	22	8	...
Fairfield, Manchester ...	1.14	0.42	25	9	6.46
Ulster Spring ...	6.70	1.40	27	12	6.20
Freeman's Hall ...	8.36	1.50	27	11	..
Albert Town ...	9.30	2.48	27	12	...
Lowe River ...	11.55	3.75	25	12	...
Troy ...	7.70	2.00	27	8	9.62
Windsor Pen, Trel. ...	5.93	0.95	20	16	6.10
Medina ..	5.70	2.92	2	12	...
Wallingford ...	6.81	1.80	2	18	...
Balaclava Police Station ...	7.82	1.75	26	19	9.66
Siloah ...	10.25	2.30	25	16	...
Appleton Estate ...	9.28	1.73	26	20	9.67
Maggotty ...	9.28	1.40	20	18	9.39
Butlers ..	11.35	2.35	25	16	...
Dromilly Pen ...	5.48	2.09	8	14	...
Spring Vale ...	6.84	2.20	8	9	5.44
Garland ...	...	...	...	...	...
Mocho, Catadupa ...	12.26	2.17	6	15	...
Springfield, St. Elizabeth	10.80	2.60	26	12	3.37
Chesterfield, St. James ...	...	...	...	...	...
Catadupa Rly. Station ...	10.92	3.60	27	11	...
Kempshot ...	2.70	0.97	9	11	5.54
Cambridge, St. James ...	10.32	3.45	28	18	...
Ducketts ...	...	...	...	...	...
Hazelymph ...	...	..	...	...	...
New Market, Police St. ...	9.66	2.40	26	14	...
The Bog, New Market ...	13.63	3.50	10	19	...
Kew Park ...	12.24	2.12	9	21	8.27
Knockalva ..	5.57	1.63	27	12	..
Ramble ...	6.39	2.68	27	11	...
Petersville ...	7.09	1.92	20	15	7.35
Darliston ...	11.80	1.94	27	17	11.40
Bluefields ...	8.89	2.63	19	12	...
Whithorn ...	6.95	1.00	26	18	...
Water Works ...	7.37	1.00	10	15	...
Great Valley, Han. ...	6.16	2.15	9	7	7.62
Prospect Park ...	7.88	2.50	29	10	...
Fontabelle, Westm. ...	..	...	...	..	...
Belleisle ...	8.96	3.60	29	12	6.98
Morgan's Bridge ...	6.22	2.47	29	11	...
King's Vale Police St. ...	5.82	1.12	19	14	5.90
Means ...	7.07	...	...	...	...

SOUTHERN DIVISION.	APRIL, 1914.				
	Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	2.48	0.77	20	14	2.99
Elliott Hill ...	7.15	1.19	30	20	...
Pleasant Hill ...	6.76	1.32	29	11	...
East Prospect ...	5.49	0.94	18	19	...
Morant Bay ...	2.70	0.48	29	17	2.55
Easington ...	1.99	0.90	20	7	1.73
Bull Bay ...	0.61	0.35	19	3	...
Bellevue ...	...	...	..	...	..
Gordon Town ...	2.55	1.21	30	5	...
Hope Gardens ...	1.98	...	...	...	2.84
King's House Gardens ...	2.59	...	...	...	2.48
Halfway Tree ...	1.71	1.06	30	2	...
Lunatic Asylum ...	1.52	1.04	30	5	1.07
Parade Gardens ...	...	...	...	...	...
Kingston S. Camp Road ...	1.32	0.53	30	6	..
" P. W. Office ..	0.95	0.47	30	6	1.01
Plumb Point L. H. ...	0.28	0.13	30	5	0.99
Clifton Pen ...	0.85	0.55	19	2	...
Quarantine Station ...	0.24	0.11	29	3	...
Spanish Town ...	2.20	0.89	30	3	2.30
Hog Hole, St. Catherine...	2.33	0.83	30	5	2.96
Hartlands ...	4.17	2.50	30	4	...
Belmont, Guanaboa Vale	5.33	1.75	30	13	...
Old Harbour ...	3.85	1.75	30	5	2.87
May Pen ...	4.15	2.00	30	8	2.92
Dunkley's, Vere ...	1.12	0.50	7	4	2.16
Dry River " ...	1.27	0.59	7	4	...
Denbigh ...	2.20	1.40	30	3	2.62
Toll Gate ...	1.79	0.73	11	6	...
Woodleigh ...	2.45	1.50	30	4	...
New Yarmouth ...	1.11	0.63	7	4	2.31
Exeter, Vere ...	0.12	0.12	18	1	...
Rhymesbury ...	1.94	0.93	30	7	2.21
Milk River ...	1.20	0.40	30	3	2.25
Clarendon Pk. Ry. St. ...	...	...	...	...	..
Victoria Town ...	1.62	0.51	7	5	3.83
Hog Hole, S. Manch. ...	3.09	0.88	11	8	...
Stone's Hope ...	2.75	0.59	11	9	4.13
Newport, Manchester ...	2.64	0.65	16	10	4.96
Great Valley, Man. ...	3.40	0.74	19	11	4.05
Alligator Pond ...	3.32	1.68	26	7	3.20
Southfield, St. Elizabeth ...	4.24	1.55	26	10	...
Lititz ...	1.88	0.70	25	8	...
Long Hill ...	2.77	1.55	24	9	7.64
Torrington ...	1.80	0.50	18	8	4.53
Bethlehem, St. Eliz. ...	2.17	0.63	29	9	6.30
Santa Cruz ...	5.74	1.95	16	10	9.34
Pedro Plains Police St. ...	1.71	0.80	26	7	2.22
Black River ...	4.54	0.71	26	11	4.18
Font Hill ...	4.70	1.40	16	9	4.40
Mount Edgecombe ...	5.43	1.09	20	15	5.40
Sweet River ...	8.13	1.68	20	15	5.70
Windsor, Sav.-la-mar ...	5.74	0.90	20	12	4.99
Orchard ...	4.92	1.01	23	11	...
Sav.-la-mar ...	6.22	0.95	11	11	...
Retreat ...	7.21	1.92	29	10	5.07
White Hall ...	...	...	...	...	...
Negril Point L.H ...	4.00	0.76	19	13	3.03
Means ...	3.11	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

	April.	
	1914.	Average.
	In.	In.
North-Eastern Division ...	5.68	5.31
Northern " ...	3.09	3.05
West-Central " ...	7.07	7.13
Southern " ...	3.11	3.24
The Island ...	4.99	4.68

The heaviest rainfall, 13.72 inches, was recorded at Windsor, Portland, and the smallest 0.12 inch at Exeter in Vere.

Rainfall at Grand Cayman, December, 1913.	Total Fall.	Greatest fall.		No. of days on which 0.01 or more fell.
		Amount.	Date	
	In.	In.		
East End ...	..	..	..	..
Bodden Town ...	..	...	...	..
George Town ...	..	..	..	..

Shocks of Earthquake in April, 1914.

Date.	Mean time.	Intensity.	Notes: where felt, etc.
No earthquakes this month.			

Plumb Point Light House—

Average No. of Miles of wind per diem	185
Greatest on the 7th	500
Least on the 20th	81

The Weather Office,
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

5 Stacks

No. 430.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

MAY, 1914.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.980	29.942	80.5	82.5	84.8	76.1	8.7	86.0	22*	67.5	3	18.5
Kingston ..	24	29.952	29.904	78. 6	85.0	89.6	73.0	16.6	93.8	27	70.6	2	23.2
Negril Point Light House ..	33	29.962	29.925	79.1	82.6	86.0	71.9	14.1	88.5	10	69.6	3	18.9
Castleton Gardens ..	496	..	..	69	83.5	88.3	64.7	23.8	93	18	61	15*	32
Hope Gardens† ..	668	29.955	29.880	76.3	84.8	90	67.3	22.7	94	18	66	7	28
Stony Hill Indus. School ..	1,400	..	..	71.0	79.7	82.8	6.46	18.2	88	15	63	1*	25
Hill Gardens ..	4,900	25.293	25.266	63.2	66 2	78.4	57.4	21.0	74	9	56	1*	18

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction from and miles per hour.				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	75.7	85	76.4	82	1.14	300	E by N	19	ENE	16.5	2.6	2.1	0.7	0.8	3.0	1.9
Kingston ..	24	69.0	72	71.3	64	0.80	223	N by E	4.3	SE	18.7	0.6	1.1	2.0	4.6	1.2	1.0
Negril Point Light House‡ ..	33	70.3	74	72.5	72	9.83	180	ENE	6.8	E	9.5	0.6	0.1	3.2	2.2	6.4	0.3
Castleton Gardens ..	496	67.2	93	72.7	70	6.70	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	73.7	93	69 3	59	4.27	.	.	..	..	..	..	..	..	..	..	..
Stony Hill Indus School ..	1,400	67.0	87	72.5	78	12.23	..	.	..	..	..	..	..	..	..	..	..
Hill Gardens .	4,900	59.1	87	61.7	87	3.96	..		..	..	..	..	..	.	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m. E by N 6.4

RAINFALL FOR MAY, 1914.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	MAY, 1914. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	3.36	1.15	31	8	14.77
Ecclesdown ...	9.68	2.45	31	16	..
Spring Valley, Portland ...	4.59	1.48	31	9	.
Bath ...	3.03	0.67	24	18	12.75
Boston ...	3.20	1.00	20	7	16.55
Moore Town ...	12.86	2.75	31	17	16.96
Port Antonio ...	6.61	1.80	31	15	16.66
Fellowship ...	...	..	...	...	...
Windsor, Portland ...	..	...	...	..	...
Johnson River Bridge ...	1.82	0.30	24	12	9.52
Shrewsbury ...	13.70	..	...	...	...
Cedar Valley, St. Thos. ...	0.91	0.58	30	3	9.33
Hope Bay ...	6.20	1.55	31	18	...
Moy Hall, St. Thos. ...	2.20	1.50	30	5	9.44
Lennox ...	8.12	1.25	31	18	..
Farm Hill ...	4.35	1.35	30	9	...
Hill Gardens ...	3.96	...	...	...	10.71
Buff Bay ...	6.45	1.66	1	9	8.15
Vinery ...	4.66	2.20	1	9	..
Windsor Castle, Port. ...	5.90	1.58	1	11	...
Greenvale, Portland ...	12.45	3.20	29	12	...
Mt. Holstein ...	7.26	2.78	1	12	8.14
Irish Town ...	2.98	1.27	31	4	...
Rose Hill ...	10.25	2.50	1	10	...
Hardware Gap ...	5.55	..	...	...	12.57
Stony Hill Ind. School ...	12.23	3.25	1	16	9.73
Castleton Gardens ...	6.70	...	...	...	12.04
Lawrence Tavern ...	9.31	2.06	7	10	9.12
Cedar Valley, Red Hills ...	9.86	2.81	3	10	...
Carew Castle ...	15.61	2.97	6	25	9.23
Agualta Vale ...	2.51	0.55	27	8	...
Water Valley ...	2.50	0.70	26	10	7.23
Albany, Ry. Station ..	..	...	...	...	...
Platfield ...	4.43	0.95	22	9	...
Richmond, St. Mary ...	3.47	1.05	1	8	7.54
Hampstead, St. Mary ...	3.32	0.81	26	9	...
Troja ...	6.10	1.67	23	10	...
Lucky Hill ...	2.80	1.40	2	4	...
Rio Hoe ...	4.16	1.72	1	6	8.48
Unity Valley ...	9.32	1.91	1	16	9.99
Moneague ...	5.23	1.75	1	5	8.26
Claremont ...	2.04	0.80	1	4	7.34
Albion, St. Ann ...	5.01	1.03	7	15	8.46
Averham Park ...	1.81	0.81	5	6	8.25
Means ...	5.61	...	...	...	...

NORTHERN DIVISION.	MAY, 1914. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	4.14	1.61	1	11	6.61
Ocho Rios ...	2.03	0.79	1	5	5.20
Bogue, Ocho Rios ...	0.94	0.94	27	1	...
Drax Hall ...	1.20	0.45	1	7	7.10
St. Ann's Bay ...	0.84	0.35	22	9	5.64
Seville ...	0.84	0.18	24	7	7.18
Richmond Estate ...	0.64	0.19	24	7	..
Llandovery ...	0.70	0.22	21	4	7.11
Runaway Bay ...	0.20	0.10	24	2	...
Brown's Town ...	0.79	0.40	23	3	...
Alexandria ...	2.65	1.30	1	5	...
Chewmagna, St. Ann ...	6.18	1.28	1	12	6.70
Home Castle ...	0.50	0.40	23	2	6.13
Richmond Pen ...	4.40	0.90	9	8	7.76
Mahogany Hall ...	5.56	2.58	4	7	6.02
Barnstaple ...	3.03	1.80	13	5	...
Brampton Bryan ...	0.69	0.32	13	3	5.72
Bryan Castle ...	0.70	0.40	5	3	5.49
Braco ...	0.50	0.25	5	2	4.90
Arcadia ...	1.61	1.05	5	5	4.98
Lancaster ...	0.80	0.55	25	2	5.40
Harmony Hall ...	0.73	0.42	25	2	4.88
Vale Royal ...	1.94	0.90	5	4	6.34
Colchis Pen ...	3.83	1.10	7	10	7.15
Swanswick ...	2.19	1.20	5	5	...
Georgia ...	1.35	0.55	4	3	...
Long Pond ...	..	...	...	...	...
Hyde Hall ...	...	...	...	...	...
Steelfield ...	..	...	...	...	...
Etingdon ...	1.55	0.75	25	4	4.43
Lottery ...	2.05	0.90	25	7	6.35
Falmouth ...	...	...	...	...	...
Florence Hall ...	...	...	...	...	...
Good Hope ...	5.84	1.50	18	7	...
Unity ...	5.41	1.67	17	13	...
Kent ...	1.05	0.90	25	3	5.43
Gales Valley ...	7.69	1.55	22	9	8.39
Canaan ...	7.66	1.06	28	12	7.55
Content ...	...	...	...	...	...
Bellfield ...	2.26	0.87	26	4	...
Hampden ...	...	...	...	...	...
Moor Park ...	2.92	0.90	25	6	...
Rose Hall ...	...	...	...	...	...
Montego Bay ...	...	...	...	...	...
Catherine Hall ...	2.53	0.90	5	11	8.69
Retirement ...	5.12	1.34	5	15	...
King Gate ...	...	..	...	...	...
Round Hill ...	...	..	...	...	...
Blue Hole ...	8.46	3.00	24	8	...
Haughton Court ...	10.01	3.34	27	9	...
Lucea ...	9.50	2.70	27	9	8.09
Green Island, Police St. ...	13.68	2.50	27	16	...
CENTRAL SUB-DIVISION.					
Rio Magno ...	...	...	...	...	...
Headworks, Rio Cobre ...	5.90	1.90	3	10	7.71
Linstead ...	13.11	3.00	1	18	9.64
Berkshire Hall ...	8.56	2.40	1	16	5.43
Point Hill ...	9.62	2.12	23	9	12.80
Brown's Hall ...	7.11	1.80	1	11	8.76
Worthy Park ...	4.95	1.59	28	9	8.17
Croft Hill ...	2.44	1.37	1	5	...
Chapelton ...	2.59	0.66	30	9	8.47
Danks Works ...	3.66	0.65	28	13	9.22
Savoy House ...	4.58	0.75	3	11	8.03
Crooked River ...	7.67	2.04	17	11	...
Trout Hall ...	9.40	2.60	7	16	..
Cave Valley ...	5.20	1.36	15	14	9.66
Greenock ...	..	...	..	..	...
Means ...	3.84	...	...	...	...

West-Central Division.	May, 1914. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Whitney ...	5.20	1.35	3	9	...
Mocho, Clarendon ...	3.99	1.66	27	7	...
Baillieston ...	...	...	...	...	...
Brokenhurst ...	5.10	1.55	23	7	10.02
Christiana ...	5.75	1.50	28	13	11.50
Chudleigh ...	5.81	2.03	20	14	...
Shooter's Hill ...	3.98	1.26	4	16	...
Spitzbergen ...	8.96	3.10	4	12	...
Kendal, Manchester ...	5.57	2.09	4	10	10.16
Marshalls Pen ...	4.10	7.86	4	6	10.01
Mandeville ...	5.69	1.32	27	11	11.17
Carlton, Mandeville ...	4.95	2.15	31	8	...
The Hill ...	5.33	2.52	31	8	...
Fairfield, Manchester ...	3.74	1.40	4	10	7.87
Ulster Spring ...	8.77	2.17	31	12	11.61
Freeman's Hall ...	9.10	2.50	31	15	..
Albert Town ...	10.31	3.07	31	19	...
Lowe River ...	8.42	1.45	31	10	...
Troy ...	12.45	2.00	6	15	17.69
Windsor Pen, Trel. ...	9.20	2.87	17	20	10.96
Medina ..	8.79	3.08	31	6	...
Wallingford ...	11.10	3.46	3	13	...
Balaclava Police Station ...	10.21	3.51	3	11	14.41
Siloah ...	16.90	2.85	3	18	...
Appleton Estate ...	16.89	4.69	23	17	13.02
Maggotty ...	18.01	3.67	20	19	14.85
Butlers ..	19.55	2.30	25	19	...
Dromilly Pen ...	9.80	2.50	17	17	...
Spring Vale ...	14.00	1.90	7	6	13.57
Garland ...	...	...	...	...	...
Mocho, Catadupa ...	14.98	2.02	8	15	...
Springfield, St. Elizabeth	17.44	2.60	23	18	6.59
Chesterfield, St. James ...	...	...	...	...	...
Catadupa Rly. Station ...	24.41	4.00	21	24	...
Kempshot ...	5.11	0.79	27	15	10.37
Cambridge, St. James ...	18.07	2.57	21	22	...
Ducketts ...	...	...	...	...	...
Hazelymph ...	...	..	...	...	...
New Market, Police St. ...	18.37	2.52	6	19	...
The Bog, New Market ...	16.70	2.77	6	20	...
Kew Park ...	13.98	2.17	21	23	12.91
Knockalva ..	14.78	2.15	17	22	..
Ramble ...	20.93	2.76	27	21	...
Petersville ...	11.34	3.65	6	22	12.19
Darliston ...	22.06	3.15	10	23	16.91
Bluefields ...	19.80	4.15	30	17	...
Whithorn ...	19.00	3.20	15	22	14.88
Water Works ...	19.40	2.74	15	22	...
Great Valley, Han. ...	17.92	3.10	28	16	14.22
Prospect Park ...	22.05	3.75	23	29	...
Fontabelle, Westm. ...	17.85	3.94	12	21	9.36
Belleisle ...	15.15	2.57	5	18	11.61
Morgan's Bridge ...	21.36	4.32	23	20	12.36
King's Vale Police St. ...	21.36	3.80	27	19	9.76
Means ...	12.54	...	...	...	...

Southern Division.	May, 1914. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	1.14	0.36	24	9	10.76
Elliott Hill ...	2.33	0.38	25	19	...
Pleasant Hill ...	2.25	0.55	24	9	...
East Prospect ...	1.55	0.52	12	12	...
Morant Bay ...	1.12	0.34	24	10	8.00
Easington ...	0.82	0.25	10	6	6.33
Bull Bay ...	1.05	1.05	1	1	4.13
Bellevue ...	2.69	0.80	1	8	..
Gordon Town ...	4.44	1.50	31	4	8.23
Hope Gardens ...	4.27	...	...	...	6.38
King's House Gardens ...	2.80	...	...	...	7.32
Halfway Tree ...	1.97	0.92	1	4	4.87
Lunatic Asylum ...	0.90	0.61	3	5	3.57
Parade Gardens ...	...	...	...	...	...
Kingston S. Camp Road ...	1.22	0.61	30	6	..
" P. W. Office ...	0.80	0.63	1	4	4.63
Plumb Point L. H. ...	1.49	1.13	1	5	4.80
Clifton Pen ...	1.39	0.76	1	4	...
Quarantine Station ...	2.80	2.80	1	1	...
Spanish Town ...	2.95	1.53	30	6	5.77
Hog Hole, St. Catherine...	3.55	1.80	30	5	6.79
Hartlands ...	2.37	1.18	30	3	4.34
Belmont, Guanaboa Vale	4.65	1.07	1	14	...
Old Harbour ...	0.75	0.35	1	3	5.78
May Pen ...	0.55	0.40	1	2	6.84
Dunkley's, Vere ...	1.74	1.40	1	3	4.50
Dry River " ...	1.19	0.80	1	4	...
Denbigh ...	0.00	...	..	0	7.61
Toll Gate ...	1.93	0.68	31	4	...
Woodleigh ...	0.00	..	...	0	...
New Yarmouth ...	1.19	0.94	1	4	4.86
Exeter, Vere ...	0.92	0.42	31	4	...
Rhymesbury ...	0.89	0.51	31	7	5.89
Milk River ...	1.86	0.40	30	3	5.84
Clarendon Pk. Ry. St. ...	...	...	...	...	..
Victoria Town ...	1.83	0.73	31	3	9.18
Hog Hole, S. Manch. ...	4.02	2.14	3	5	...
Stone's Hope ...	4.11	1.97	3	6	9.30
Newport, Manchester ...	2.47	0.84	31	6	8.37
Great Valley, Man. ...	6.14	2.62	30	6	6.99
Alligator Pond ...	5.23	4.11	31	2	5.86
Southfield, St. Elizabeth ...	3.81	1.60	31	6	...
Lititz ...	3.18	1.55	30	5	...
Long Hill ...	7.15	2.08	21	8	10.24
Torrington ...	3.75	1.12	19	6	6.76
Bethlehem, St. Eliz. ...	5.37	1.25	19	9	7.64
Santa Cruz ...	6.30	2.77	31	7	12.81
Pedro Plains Police St. ...	3.40	1.89	5	6	4.12
Black River ...	3.15	1.38	23	12	7.42
Font Hill ...	9.55	3.80	25	10	8.84
Mount Edgecombe ...	8.85	2.11	20	22	8.23
Sweet River ...	16.95	2.40	23	17	9.81
Windsor, Sav.-la-mar ...	15.19	3.72	23	19	9.46
Orchard ...	14.93	4.26	23	19	...
Sav.-la-mar ...	15.50	3.70	23	14	9.29
Retreat ...	13.14	2.94	6	13	9.09
White Hall ...	8.72	1.61	12	14	...
Negril Point L.H ...	9.83	3.24	12	17	5.88
Means ...	4.48	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

	May.	
	1914.	Average.
	In.	In.
North-Eastern Division ...	5.61	10.82
Northern " ...	3.84	7.07
West-Central " ...	12.54	12.49
Southern " ...	4.48	6.94
The Island ...	6.62	9.33

The rainfall for May was, therefore, below the average for all the divisions excepting the West-Central. The heaviest fall, 24.41, occurred at Catadupa ; and no rainfall at Denbigh and Woodleigh.

The Earthquake of the 27th apparently came from the isthmus of Panama where it was felt at 10.20 p m. and lasted 30 sec. It must therefore have travelled 2 or 3 miles a sec. The time, duration, and direction at Kingston is only approximate. The time at Billy Dun was carefully noted, and the long undulations of the ground caused a large bell in the yard there to toll.

Rainfall at Grand Cayman, December, 1913.	Total Fall.	Greatest fall. Amount.	Greatest fall. Date	No. of days on which 0.01 or more fell.
	In.	In.		
East End ...	..	..	..	..
Bodden Town ...	..	...	...	..
George Town ...	..	..	..	..

Shocks of Earthquake in May, 1914.

Date.	Mean time.	Intensity.	Notes: where felt, etc.
	hr. min.		
27	10 30 p.m.	II.	Kingston N.W. 0.017. Duration 10 seconds.
27	10 26 "	II.	Billy Dun, St. Andrew.
27	During night.	II.	Negril Pt. L.H., N.E., 0.010.
29	3 30 a.m.	I.	Mt. Holstein, N.W., 0.007.

Plumb Point Light House—

Average No. of Miles of wind per diem	260
Greatest on the 9th	620
Least on the 18th	110

The Weather Office,
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

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JAMAICA

WEATHER REPORT

FOR THE MONTH OF

JUNE, 1914.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.982	29.953	81.0	82.9	85.0	77.9	7.1	86.0	4*	74.0	11	12.0
Kingston ..	24	29.957	29.922	78.1	85.7	90.3	73.7	16.6	92.6	26	70.1	9	22.5
Negril Point Light House ..	33	29.967	29.939	80.0	83.6	86.9	72.7	14.2	90.0	22	69.4	9	20.6
Castleton Gardens ..	496	..	..	72.8	85.9	89.8	64.7	25.1	93.0	18*	62.0	28	31.0
Hope Gardens† ..	668	..	..	76.1	84.7	89.8	69.2	20.6	94	26	68	8*	26
Stony Hill Indus. School ..	1,400	..	..	71.7	80.3	84.4	65.8	18.6	91.0	30	64.0	1*	27.0
Hill Gardens ..	4,900	25.309	25.972	64.2	66 6	71.0	57.9	13.1	75	26	55	9*	20.

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction from and miles per hour.				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	77.0	88	77.6	84	3.48	308	E by N	17.9	E by N	16.9	2.5	2.3	1.0	1.3	2.3	2.4
Kingston ..	24	69.5	75	71.4	63	0.60	240	N by E	5.0	SE	17.3	0.6	1.1	1.2	2.4	1.8	2.3
Negril Point Light House‡ ..	33	70.3	72	73.3	71	5.53	168	E	6.2	ESE	10.9	1.0	0.2	1.3	3.3	5.7	0.0
Castleton Gardens ..	496	65.1	76	75.9	72	2.88	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	68.2	76	76.3	75	4.98	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	68.1	88	72.5	77	7.13	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	58.7	85	61.4	81	4.38	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m. E 6.2

RAINFALL FOR JUNE, 1914.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	JUNE, 1914. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	4.07	9.96	12	9	10.20
Ecclesdown ...	7.00	1.20	1	14	..
Spring Valley, Portland ...	5.82	1.22	20	11	.
Bath ..	3.21	0.70	19	18	13.29
Boston ...	6.10	1.90	6	6	16.35
Moore Town ...	13.50	...	...	..	25.57
Port Antonio ...	11.72	2.51	13	20	17.96
Fellowship ...	11.66	3.10	12	18	22.43
Windsor, Portland ...	...	...	...	..	...
Johnson River Bridge ...	3.79	1.07	19	19	19.17
Shrewsbury ...	9.39	2.00	12	11	...
Cedar Valley, St. Thos. ...	1.98	1.35	19	4	19.90
Hope Bay ...	8.75	3.15	12	15	...
Moy Hall, St. Thos. ...	3.30	1.25	10	5	13.82
Lennox ...	8.72	3.00	12	12	..
Farm Hill ...	3.50	1.20	10	8	...
Hill Gardens ...	4.38	...	...	...	8.11
Buff Bay ...	3.83	1.44	12	10	7.50
Vinery ...	2.02	0.85	12	8	..
Windsor Castle, Port. ...	2.03	0.95	12	5	...
Greenvale, Portland ...	3.80	1.45	12	6	...
Mt. Holstein ...	6.10	2.23	1	12	8.16
Irish Town ...	3.51	0.95	9	7	4.97
Rose Hill ...	9.37	2.35	9	8	...
Hardware Gap ...	9.50	..	...	...	7.68
Stony Hill Ind. School ...	7.13	1.53	3	15	7.47
Castleton Gardens ...	2.88	...	...	...	9.93
Lawrence Tavern ...	5.41	1.25	8	7	7.48
Cedar Valley, Red Hills ...	3.21	8.81	5	9	...
Carew Castle ...	6.38	2.00	1	12	10.47
Agualta Vale ...	1.58	1.05	12	5	...
Water Valley ...	0.85	0.42	12	4	6.01
Albany, Ry. Station ..	..	...	...	...	...
Platfield ...	2.62	0.71	19	6	...
Richmond, St. Mary ...	0.88	0.66	19	3	5.93
Hampstead, St. Mary ...	2.02	0.76	4	5	...
Troja ...	3.49	1.36	12	6	...
Lucky Hill ...	2.39	1.00	12	9	...
Rio Hoe ...	2.45	1.04	10	7	9.11
Unity Valley ...	7.95	1.78	19	11	8.56
Moneague ...	4.71	1.40	19	8	8.34
Claremont ...	3.26	0.70	19	8	6.43
Albion, St. Ann ...	4.48	1.48	10	12	6.97
Averham Park ...	3.10	1.60	10	7	6.31
Means ...	5.24	...	..	...	...

NORTHERN DIVISION.	JUNE, 1914. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	3.35	1.58	11	7	5.83
Ocho Rios ...	2.37	0.90	12	7	5.20
Bogue, Ocho Rios ...	1.82	1.10	19	4	...
Drax Hall ...	1.15	0.35	19	5	5.16
St. Ann's Bay ...	1.29	0.88	19	8	4.30
Seville ...	1.08	0.64	19	6	4.90
Richmond Estate ...	...	...	...	...	..
Llandovery ...	0.80	0.52	8	3	4.53
Runaway Bay ...	0.25	0.15	8	2	...
Brown's Town ...	1.52	0.90	12	4	4.74
Alexandria ...	1.94	0.94	10	5	...
Chewmagna, St. Ann ...	6.61	1.60	19	11	7.92
Home Castle ...	1.10	0.70	12	3	4.48
Richmond Pen ...	4.50	1.00	12	8	5.35
Mahogany Hall ...	6.06	2.10	11	7	6.02
Barnstaple ...	5.55	2.45	10	7	...
Brampton Bryan ...	3.65	1.77	10	6	3.71
Bryan Castle ...	2.42	1.10	14	6	3.63
Braco ...	1.85	0.80	19	4	3.26
Arcadia ...	2.40	0.81	19	6	4.46
Lancaster ...	...	..	...	...	...
Harmony Hall ...	...	...	...	...	...
Vale Royal ...	3.91	1.13	19	5	4.69
Colchis Pen ...	4.20	1.02	11	13	5.11
Swanswick ...	4.48	1.70	1	10	...
Georgia ...	2.61	1.05	1	5	2.92
Long Pond ...	..	..	...	...	...
Hyde Hall ...	3.95	1.26	1	9	...
Steelfield ...	..	...	...	...	...
Etingdon ...	2.28	1.30	1	5	4.54
Lottery ...	0.95	0.50	19	7	4.14
Falmouth ...	0.13	0.08	1	2	2.88
Florence Hall ...	0.40	0.18	10	3	...
Good Hope ...	...	...	...	...	...
Unity ...	6.94	2.33	12	13	...
Kent ...	...	...	...	...	...
Gales Valley ...	2.70	0.75	4	5	6.78
Canaan ...	4.16	1.52	18	7	7.76
Content ...	...	...	...	...	...
Bellfield ...	1.93	0.45	19	8	...
Hampden ...	...	...	...	...	...
Moor Park ...	2.97	2.05	19	7	6.62
Rose Hall ...	...	...	...	...	...
Montego Bay ...	3.59	1.90	19	5	7.19
Catherine Hall ...	3.80	1.65	19	12	7.30
Retirement ...	5.26	2.22	19	14	...
King Gate ...	...	..	...	...	...
Round Hill ...	3.65	0.50	...	12	6.35
Blue Hole ...	5.95	3.18	2	8	...
Haughton Court ...	2.00	0.47	26	8	...
Lucea ...	1.89	0.80	2	6	8.76
Green Island, Police St. ...	11.14	2.70	29	12	...
CENTRAL SUB-DIVISION.					
Rio Magno ...	...	...	...	...	...
Headworks, Rio Cobre ...	1.25	0.77	5	3	6.16
Linstead ...	3.38	1.00	8	11	8.59
Berkshire Hall ...	5.09	0.96	8	14	8.65
Point Hill ...	5.74	1.40	2	11	11.26
Brown's Hall ...	5.20	1.91	5	6	12.60
Worthy Park ...	2.38	0.94	8	4	7.19
Croft Hill ...	2.07	1.08	7	4	...
Chapelton ...	4.44	1.78	5	4	7.56
Danks Works ...	4.89	1.16	3	9	8.05
Savoy House ...	5.21	1.37	8	9	9.18
Crooked River ...	4.91	2.00	10	7	...
Trout Hall ...	4.54	1.33	10	10	..
Cave Valley ...	7.36	1.30	11	14	4.67
Greenock ...	6.80	1.26	11	14	...
Means ...	3.21	...	...	...	...

WEST-CENTRAL DIVISION.	JUNE, 1914. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Whitney ...	6.50	1.80	3	8	...
Mocho, Clarendon ...	3.35	1.65	3	7	...
Baillieston ...	...	...	...	...	...
Brokenhurst ...	5.67	1.45	11	7	13.68
Christiana ...	5.03	1.19	8	11	8.16
Chudleigh ...	9.11	1.33	3	14	...
Shooter's Hill ...	5.04	1.43	3	10	...
Spitzbergen ...	7.65	2.40	3	11	...
Kendal, Manchester ...	4.37	1.53	3	7	10.21
Marshalls Pen ...	3.78	1.68	3	6	8.39
Mandeville ...	3.49	1.02	5	10	10.07
Carlton, Mandeville ...	4.21	1.19	5	11	...
The Hill ...	3.63	1.17	8	8	...
Fairfield, Manchester ...	3.47	1.34	3	10	9.08
Ulster Spring ...	7.70	2.62	11	10	5.59
Freeman's Hall ...	7.34	1.85	11	10	..
Albert Town ...	6.82	1.60	11	10	...
Lowe River ...	7.47	1.50	10	11	4.54
Troy ...	10.20	2.00	24	13	7.77
Windsor Pen, Trel. ...	12.20	2.40	10	20	9.45
Medina ..	4.65	...	...	...	...
Wallingford ...	8.86	2.60	8	12	...
Balaclava Police Station ...	6.12	2.15	3	10	4.98
Siloah ...	7.55	1.95	8	12	...
Appleton Estate ...	5.25	1.11	8	11	7.20
Maggotty ...	4.93	1.35	24	13	6.35
Butlers ..	12.60	1.95	22	14	...
Dromilly Pen ...	6.42	2.08	13	14	...
Spring Vale ...	15.21	3.80	1	14	11.31
Garland ...	...	...	...	...	...
Mocho, Catadupa ...	11.09	2.71	21	12	...
Springfield, St. Elizabeth	8.12	1.70	24	14	9.11
Chesterfield, St. James ...	...	...	...	...	...
Catadupa Rly. Station ...	...	...	...	...	...
Kempshot ...	7.27	3.57	19	15	9.29
Cambridge, St. James ...	14.47	2.26	7	16	...
Ducketts ...	...	...	...	...	...
Hazelymph ...	...	...	...	...	...
New Market, Police St. ...	11.98	2.70	2	13	...
The Bog, New Market ...	9.61	2.00	3	17	...
Kew Park ...	14.35	1.53	24	22	9.56
Knockalva ..	15.50	1.93	11	24	..
Ramble ...	19.25	2.00	7	25	...
Petersville ...	5.09	1.34	24	16	8.54
Darliston ...	13.33	2.10	10	21	10.38
Bluefields ...	20.32	5.25	3	20	11.93
Whithorn ...	11.11	3.50	1	19	9.38
Water Works ...	9.31	2.60	1	19	...
Great Valley, Han. ...	13.91	2.70	1	12	12.95
Prospect Park ...	20.14	2.63	10	21	...
Fontabelle, Westm. ...	18.33	3.30	1	23	11.19
Belleisle ...	17.97	3.63	1	20	10.47
Morgan's Bridge ...	17.22	2.70	20	22	10.61
King's Vale Police St. ...	10.17	1.50	7	18	10.37
Means ...	9.65	...	...	...	...

SOUTHERN DIVISION.	JUNE, 1914. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average
	In.	In.			In.
Morant Point L. H. ...	3.48	2.00	11	15	7.12
Elliott Hill ...	3.70	1.04	12	23	...
Pleasant Hill ...	3.10	0.87	10	9	...
East Prospect ...	1.88	0.42	19	17	...
Morant Bay ...	2.97	1.20	19	17	10.19
Easington ...	1.67	0.70	19	8	10.28
Bull Bay ...	1.25	0.45	8	4	5.41
Bellevue ...	4.20	1.41	3	9	..
Gordon Town ...	3.13	1.00	4	9	5.88
Hope Gardens ...	4.98	...	...	...	5.55
King's House Gardens ...	1.22	...	...	...	5.16
Halfway Tree ...	0 37	0.22	12	2	...
Lunatic Asylum ...	0.91	0.25	5	6	5.90
Parade Gardens ...	...	...	...	...	...
Kingston S. Camp Road ...	1.27	0.60	5	6	..
" P. W. Office ...	0.60	0.27	5	6	4.38
Plumb Point L. H. ...	1.16	0.63	12	4	4.65
Clifton Pen ...	0.45	0.30	8	3	...
Quarantine Station ...	0.58	0.43	12	3	...
Spanish Town ...	0.50	0.36	3	3	5.24
Hog Hole, St. Catherine...	1.13	0.09	3	2	5.81
Hartlands ...	0.34	0.16	5	3	5.35
Belmont, Guanaboa Vale	1.26	0.56	5	4	...
Old Harbour ...	0.75	0.35	1	3	7.68
May Pen ...	2.34	0.50	5	6	7.66
Dunkley's, Vere ...	0.08	0.05	5	2	11.05
Dry River " ...	0.42	0.18	11	2	...
Denbigh ...	0.95	0.60	24	2	6.01
Toll Gate ...	2.02	1.12	8	5	...
Woodleigh ...	0.90	0.50	5	3	...
New Yarmouth ...	0.39	0.18	10	3	7.16
Exeter, Vere ...	0.23	0.21	21	3	9.03
Rhymesbury ...	0.87	0.34	10	5	10.58
Milk River ...	...	...	...	...	...
Clarendon Pk. Ry. St. ...	1.86	0.85	8	5	..
Victoria Town ...	1.32	1.00	5	2	8.63
Hog Hole, S. Manch. ...	4.59	2.00	3	5	...
Stone's Hope ...	6.05	2.17	8	6	10.18
Newport, Manchester ...	3.77	1.51	8	10	10.62
Great Valley, Man. ...	3.68	1.30	3	5	8.40
Alligator Pond ...	2.58	1.14	5	3	6.00
Southfield, St. Elizabeth ...	2.45	1.62	8	5	...
Lititz ...	3.27	1.32	8	12	...
Long Hill ...	5.15	1.70	3	4	5.96
Torrington ...	3.15	1.65	3	4	4.41
Bethlehem, St. Eliz. ...	3.16	1.47	3	4	5.26
Santa Cruz ...	5.27	2.62	5	5	6.06
Pedro Plains Police St. ...	1.46	0.74	8	5	4.30
Black River ...	1.81	0.90	8	6	4.02
Font Hill ...	4.00	1.15	8	6	6.08
Mount Edgecombe ...	5.81	1.20	20	18	6.82
Sweet River ...	9.10	3.60	1	7	7.37
Windsor, Sav.-la-mar ...	8.98	1.91	10	13	6.72
Orchard ...	8.39	2.04	1	12	...
Sav.-la-mar ...	...	...	..	..	...
Retreat ...	6.24	1.32	3	13	7.95
White Hall ...	9.18	2.81	7	16	...
Negril Point L.H. ...	5.53	1.36	7	16	6.26
Means ...	2.87	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

—	June. 1914.	June. Average.
	In.	In.
North-Eastern Division ...	5.24	10.75
Northern " ...	3.21	5.74
West-Central " ...	9.65	9.48
Southern " ...	2.87	6.93
The Island ...	5.24	8.22

The heaviest rainfall 20.32 inches was recorded at Bluefields in the West-central division, and the smallest 0.08 inch at Dunkley's in Vere.

Shocks of Earthquake in June, 1914.

Date.	Mean time.	Intensity.	Notes: where felt, etc.
	hr. min.		
1	10 55 a.m.	I.	Mt. Holstein, N., .003.
25	11 00 p.m.	I.	Moy Hall.

Plumb Point Light House—

Average No. of Miles of wind per diem	320
Greatest on the 29th	632
Least on the 4th	83

The Weather Office,
Halfway Tree P.O.

MAXWELL HALL,
Govt. Meteorologist.

51.05
A STACK

No. 432.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

JULY, 1914.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	30.004	29.977	81.8	84.1	85.9	78.8	7.1	87.0	22*	75.0	8	12.0
Kingston ..	24	29.982	29.931	78.7	87.4	91.6	74.3	17.3	95.3	28	71.6	30	23.7
Negril Point Light House ..	33	29.994	29.962	80.2	86.1	88.3	74.0	14.3	91.5	12	70.4	1	21.1
Castleton Gardens ..	496	..	..	69.6	90.6	93.6	64.2	29.4	98	16	62	1*	36
Hope Gardens† ..	668	29.993	29.892	76.3	90.3	93	70.7	22.3	97	16	68	6	29
Stony Hill Indus. School ..	1,400	..	..	72.7	84.8	88.7	68.4	20.3	93	3*	65	30*	28
Hill Gardens ..	4,900	25.326	25.298	64.6	69.7	74.2	57.0	17.2	79	21	57	13*	22

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction from and miles per hour.				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	76.8	84	78.1	82	1.09	384	E	21.5	E by N	19.0	3.2	1.8	0.5	1.3	2.0	1.2
Kingston ..	24	68.3	70	71.0	58	0.18	283	N N E	3.7	SE	19.2	0.6	0.7	1.5	1.1	2.0	1.4
Negril Point Light House‡ ..	33	69.3	69	73.6	66	2.53	197	E by S	8.0	S	11.1	1.5	0.2	1.9	2.3	4.8	1.1
Castleton Gardens ..	496	66.5	87	71.6	54	0.25	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	66.3	71	66.3	45	0.38	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	67.3	83	70.1	61	1.90	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	57.3	75	60.7	73	1.04	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m. E 6. 8

RAINFALL FOR JULY, 1914.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	JULY, 1914. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	3.16	0.84	24	7	6.46
Ecclesdown ...	5.75	1.50	8	9	..
Spring Valley, Portland ...	5.12	1.31	26	9	.
Bath ..	3.06	0.70	21	17	9.66
Boston ...	2.50	1.00	24	..	7.34
Moore Town ...	13.15	...	...	..	20.23
Port Antonio ...	7.16	1.42	21	12	11.60
Fellowship ...	12.86	4.32	21	13	16.64
Windsor, Portland ...	...	...	...	..	...
Johnson River Bridge ...	3.95	1.21	26	16	7.71
Shrewsbury ...	7.64	2.50	8	4	3.94
Cedar Valley, St. Thos. ...	1.56	0.44	21	7	4.85
Hope Bay ...	11.45	3.30	22	12	...
Moy Hall, St. Thos. ...	1.73	0.60	22	6	5.53
Lennox ...	7.97	2.00	7	9	..
Farm Hill ...	1.01	0.43	23	4	...
Hill Gardens ...	1.04	...	...	...	3.76
Buff Bay ...	5.09	1.58	7	4	7.37
Vinery ...	3.34	0.83	23	8	..
Windsor Castle, Port. ...	3.38	1.80	23	4	...
Greenvale, Portland ...	1.28	0.67	24	4	...
Mt. Holstein ...	0.48	0.31	23	4	3.35
Irish Town ...	...	...	...	...	...
Rose Hill ...	1.56	0.82	25	3	...
Hardware Gap ...	1.15	..	...	...	...
Stony Hill Ind. School ...	1.90	0.73	26	8	5.39
Castleton Gardens ...	0.25	...	...	...	6.16
Lawrence Tavern ...	1.20	1.20	26	1	...
Cedar Valley, Red Hllls ...	..	...	...	...	...
Carew Castle ...	2.00	0.90	25	7	7.08
Agualta Vale ...	2.46	0.70	8	5	...
Water Valley ...	2.33	1.35	23	5	3.46
Albany, Ry. Station ..	..	...	...	...	...
Platfield ...	0.86	0.30	26	7	...
Richmond, St. Mary ...	0.49	0.38	23	3	3.68
Hampstead, St. Mary ...	1.46	1.12	23	2	...
Troja ...	1.10	0.60	20	4	...
Lucky Hill ...	1.12	1.00	23	2	...
Rio Hoe ...	1.73	0.73	31	5	4.29
Unity Valley ...	1.98	0.97	31	7	5.72
Moneague ...	1.23	0.60	23	5	4.93
Claremont ...	1.05	0.63	23	3	3.43
Albion, St. Ann ...	1.47	0.57	23	5	4.24
Averham Park ...	1.41	1.09	23	2	3.38
Means ...	3.34	...	...	...	...

NORTHERN DIVISION.	JULY, 1914. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	2.02	1.30	23	8	4.19
Ocho Rios ...	1.71	1.32	23	2	2.34
Bogue, Ocho Rios ...	2.10	2.00	22	2	...
Drax Hall ...	1.00	0.80	23	2	2.96
St. Ann's Bay ...	1.12	0.72	23	6	2.96
Seville ...	1.22	0.87	23	3	2.31
Richmond Estate ...	1.29	1.14	24	3	2.24
Llandovery ...	1.51	1.16	23	2	2.03
Runaway Bay ...	0.65	0.35	24	2	...
Brown's Town ...	0.58	0.27	24	3	2.68
Alexandria ...	1.40	0.50	18	4	...
Chewmagna, St. Ann ...	1.71	0.85	18	4	3.07
Home Castle ...	0.20	0.20	23	1	2.16
Richmond Pen ...	1.80	1.00	26	4	2.90
Mahogany Hall ...	1.18	0.81	26	3	4.35
Barnstaple ...	0.70	0.30	31	3	...
Brampton Bryan ...	0.12	0.12	23	1	2.18
Bryan Castle ...	0.45	0.45	23	1	1.81
Braco ...	0.65	0.65	23	1	1.69
Arcadia ...	0.20	0.20	24	1	2.00
Lancaster ...	0.80	0.80	24	1	1.99
Harmony Hall ...	0.80	0.80	24	1	1.56
Vale Royal ...	0.63	0.50	24	2	2.87
Colchis Pen ...	1.25	0.86	26	4	3.18
Swanswick ...	2.75	1.60	26	6	...
Georgia ...	0.50	0.45	24	2	2.27
Long Pond ...	..	...	...	...	...
Hyde Hall ...	1.23	0.40	26	6	2.90
Steelfield ...	..	...	...	...	...
Etingdon ...	0.50	0.50	24	1	1.63
Lottery ...	1.40	0.55	7	6	2.33
Falmouth ...	0.22	0.22	23	1	1.64
Florence Hall ...	0.56	0.44	23	2	...
Good Hope ...	...	...	...	...	...
Unity ...	4.87	2.98	26	6	...
Kent ...	...	...	...	...	...
Gales Valley ...	...	...	...	...	...
Canaan ...	3.34	1.37	29	7	4.18
Content ...	...	...	...	...	...
Bellfield ...	1.95	1.55	28	4	...
Hampden ...	...	...	...	...	...
Moor Park ...	1.30	0.40	29	5	2.57
Rose Hall ...	...	...	...	...	...
Montego Bay ...	1.83	0.93	31	3	3.41
Catherine Hall ...	1.36	0.60	18	6	4.08
Retirement ...	0.91	0.55	18	8	...
King Gate ...	...	...	...	...	...
Round Hill ...	1.95	0.50	...	5	3.81
Blue Hole ...	1.95	0.92	8	6	...
Haughton Court ...	1.57	0.59	29	9	...
Lucea ...	2.60	0.84	29	9	5.50
Green Island, Police St. ...	2.70	1.00	29	6	...
CENTRAL SUB-DIVISION.					
Rio Magno ...	...	...	...	...	...
Headworks, Rio Cobre ...	...	...	...	...	...
Linstead ...	2.75	0.95	19	6	5.93
Berkshire Hall ...	4.05	1.32	31	9	4.65
Point Hill ...	6.82	1.80	21	12	6.57
Brown's Hall ...	7.87	3.03	30	9	4.66
Worthy Park ...	1.94	0.54	26	6	4.34
Croft Hill ...	...	...	..	...	...
Chapelton ...	1.28	1.00	21	4	3.65
Danks Works ...	2.02	1.03	19	5	3.48
Savoy House ...	1.47	0.65	19	5	3.15
Crooked River ...	2.74	1.26	26	5	...
Trout Hall ...	4.79	2.14	25	8	..
Cave Valley ...	2.35	1.10	31	6	4.67
Greenock ...	2.10	0.90	31	6	...
Means ...	1.68	...	...	...	...

West-Central Division.	July, 1914. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Whitney ...	1.57	0.50	21	5	3.94
Mocho, Clarendon ...	0.79	0.30	30	4	...
Baillieston ...	...	...	...	...	...
Brokenhurst ...	6.05	1.95	30	5	6.00
Christiana ...	3.98	1.40	30	9	4.37
Chudleigh ...	5.30	2.58	21	8	...
Shooter's Hill ...	5.92	1.59	30	10	...
Spitzbergen ...	4.65	1.20	25	11	...
Kendal, Manchester ...	4.34	2.19	30	6	5.45
Marshalls Pen ...	4.39	1.66	30	7	4.94
Mandeville ...	4.69	1.60	30	9	5.91
Carlton, Mandeville ...	4.21	1.50	30	8	4.64
The Hill ...	2.92	1.62	30	4	...
Fairfield, Manchester ...	2.56	1.00	30	6	3.05
Ulster Spring ...	..	...	...	...	...
Freeman's Hall ...	2.02	0.55	25	6	..
Albert Town ...	...	...	...	..	...
Lowe River ...	...	...	..	...	...
Troy ...	...	...	..	..	...
Windsor Pen, Trel. ...	4.82	2.05	26	12	6.65
Medina ..	2.53	1.30	22	5	...
Wallingford ...	4.93	1.38	21	8	...
Balaclava Police Station ...	3.75	1.25	21	7	4.71
Siloah ...	4.15	1.50	25	6	...
Appleton Estate ...	6.55	1.49	26	10	7.24
Maggotty ...	7.07	1.75	30	13	8.15
Butlers ...	5.83	1.55	26	11	...
Dromilly Pen ...	3.09	2.18	26	6	...
Spring Vale ...	3.70	1.50	26	5	...
Garland ...	...	...	...	...	...
Mocho, Catadupa ...	8.65	2.13	25	10	...
Springfield, St. Elizabeth	5.86	2.00	26	11	3.16
Chesterfield, St. James ...	...	...	...	...	...
Catadupa Rly. Station ...	...	...	...	...	...
Kempshot ...	1.48	0.75	18	8	6.21
Cambridge, St. James ...	3.64	1.20	31	12	...
Ducketts ...	...	...	...	....	...
Hazelymph ...	...	...	...	...	...
New Market, Police St. ...	6.02	0.91	18	10	...
The Bog, New Market ...	9.54	1.89	26	13	...
Kew Park ...	4.51	1.92	31	11	10.23
Knockalva ...	3.48	1.98	31	14	..
Ramble ...	4.96	0.93	1	12	...
Petersville ...	8.26	2.20	8	12	7.17
Darliston ...	9.46	1.94	19	13	11.87
Bluefields ...	7.27	1.36	26	12	11.72
Whithorn ...	4.26	1.50	...	13	10.73
Water Works ...	3.15	0.85	31	14	...
Great Valley, Han. ...	3.75	1.00	18	4	10.24
Prospect Park ...	3.84	0.83	18	10	...
Fontabelle, Westm. ...	3.20	1.36	31	10	9.00
Belleisle ...	2.87	1.42	31	7	9.00
Morgan's Bridge ...	4.23	2.12	31	7	11.16
King's Vale Police St. ...	4.38	0.50	19	12	10.74
Means ...	4.84	...	...	...	...

Southern Division.	July, 1914. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	1.09	0.44	23	9	3.23
Elliott Hill ...	2.32	0.54	22	...	...
Pleasant Hill ...	1.96	0.47	22	7	...
East Prospect ...	1.67	0.40	21	9	...
Morant Bay ...	2.35	0.88	23	10	5.80
Easington ...	2.32	0.58	21	12	6.22
Bull Bay ...	0.00	...	...	0	..
Bellevue ...	...	...	...	...	..
Gordon Town ...	0.83	0.83	24	1	...
Hope Gardens ...	0.38	...	...	...	2.72
King's House Gardens ...	0.75	...	...	...	2.84
Halfway Tree ...	0.00	..	...	0	...
Lunatic Asylum ...	0.18	0.07	24	4	1.51
Parade Gardens ...	...	...	...	...	..
Kingston S. Camp Road ...	0.22	0.09	21	4	...
" P. W. Office ...	0.18	0.06	17	5	1.81
Plumb Point L. H. ...	0.13	0.05	22	3	1.94
Clifton Pen ...	0.10	0.10	24	1	...
Quarantine Station ...	0.08	0.08	27	1	...
Spanish Town ...	0.51	0.51	21	1	2.48
Hog Hole, St. Catherine...	0.59	0.40	25	2	2.67
Hartlands ...	0.40	0.25	25	3	0.75
Belmont, Guanaboa Vale	1.87	0.65	20	10	...
Old Harbour ...	0.17	0.17	22	1	2.57
May Pen ...	0.97	0.35	20	6	3.72
Dunkley's, Vere ...	0.48	0.48	21	1	2.32
Dry River " ...	0.30	0.23	21	3	...
Denbigh ...	...	..	...	..	...
Toll Gate ...	1.30	0.86	21	5	..
Woodleigh ...	...	..	..	..	...
New Yarmouth ...	0.41	0.34	21	2	2.42
Exeter, Vere ...	0.39	0.16	31	4	1.24
Rhymesbury ...	0.71	0.44	21	3	2.28
Milk River ...	...	...	...	...	..
Clarendon Pk. Ry. St. ...	1.53	0.76	24	4	...
Victoria Town ...	1.12	0.87	21	2	2.61
Hog Hole, S. Manch. ...	2.13	1.55	21	4	...
Stone's Hope ...	2.01	1.00	30	4	4.30
Newport, Manchester ...	3.32	1.71	30	6	3.73
Great Valley, Man. ...	1.00	0.63	21	4	3.27
Alligator Pond ...	0.30	0.30	21	1	2.43
Southfield, St. Elizabeth ...	0.68	0.30	30	7	...
Lititz ...	1.22	0.89	30	10	...
Long Hill ...	...	...	..	...	..
Torrington ...	2.17	0.63	17	6	..
Bethlehem, St. Eliz. ...	4.71	1.83	20	10	3.04
Santa Cruz ...	4.93	1.23	30	8	5.27
Pedro Plains Police St. ...	1.10	0.70	30	2	1.48
Black River ...	3.75	1.18	26	11	4.82
Font Hill ...	7.45	2.60	18	8	5.73
Mount Edgecombe ...	5.38	1.13	25	11	6.93
Sweet River ...	1.80	0.75	31	5	7.52
Windsor, Sav.-la-mar ...	3.48	1.24	25	11	6.91
Orchard ...	3.78	1.52	25	9	...
Sav.-la-mar ...	3.88	1.07	18	9	5.84
Retreat ...	4.34	2.02	18	5	7.65
White Hall ...	3.88	1.60	18	6	...
Negril Point L.H. ...	2.53	1.10	18	8	5.90
Means	1.91	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

—	July. 1914.	July. Average.
	In.	In.
North-Eastern Division ...	3.34	6.28
Northern „ ...	1.68	3.21
West-Central „ ...	4.84	7.85
Southern „ ...	1.91	3.59
The Island ...	2.92	5.23

The heaviest rainfall 13.15 inches was recorded at Moore Town; and no rain fell at Bull Bay and Halfway Tree.

Shocks of Earthquake in July, 1914.

Date.	Mean time. hr.	min.	Intensity.	Notes: where felt, etc.
3	...	..	I.	Mt. Holstein, N. & ., 0.008.
9	5	0 a.m.	I.	Unity Valley
11	4	3 p.m.	II.	Kingston, N.W. & S.E. 0.006
„	„	„	I.	Half-way Tree: Loud explosive sound

Plumb Point Light House—

Average No. of Miles of wind per diem	370
Greatest on the 13th	628
Least on the 25th	128

THE EARTHQUAKES OF AUGUST 3RD, 1914.

The following notes and lists are given here in order to secure greater accuracy for the August W.R., and to call in further observations if possible.

The shocks that day happen to be of great importance, by fully confirming the work which has been on hand since May 1908, when periodicity was first discovered, by showing that the centres re-act upon one another as was suggested in July 1909, so that a "double" or "treble" shock is caused by shocks from two or three adjacent centres; and by giving two out of possibly many causes which combine to produce shocks in Jamaica.

And assuming that this part of the work will be continually improved and enlarged as time goes on, our attention is now called to the other causes which operate; and here of course the real difficulty begins, as in the case of all other terrestial phenomena—such as tornadoes, thunderstorms, and so on.

The following list was compiled chiefly from notes sent to the Press from all parts of the Island; for other notes I have to thank many correspondents.

Shocks Aug. 3rd 6 hr. 25 min. a.m.

Place.	Parish.	Intensity.	Direction.	Duration.	Notes.
				sec.	
Moy Hall ..	St. Thomas	V	N & S	15	24 after shocks: see below.
Mt. Holstein ..	Portland	V	NW & SE.	45	Motion of ground 0.18 in. Several aftershocks.
Fellowship ..	do	V	..	15	8 aftershocks.
Seaforth ..	St. Thomas	V	..	10	10 aftershocks.
Morant Bay ..	do	V	..	20	Several aftershocks.
Yallahs ..	do	V	..	40	2 aftershocks.
Kingston ..	..	IV	N W& SE.	35	Time 6.25 a.m. Motion of ground 0.1 in.
Halfway Tree	St. Andrew	IV	E & W	..	Motion 0.05 in.; 2 aftershocks.
Stony Hill ..	do	IV	..	..	Double shock: 1 aftershock.
Glengoffe	St. Mary	IV	..	30	Double shock: 1 aftershock.
Scotts Hall ..	do	IV	..	..	Double shock.
Clonmel ..	do	III?	..	..	Aftershocks throughout the day
Highgate ..	do	IV	..	..	
Annotto Bay ..	do	IV	..	..	
Buff Bay ..	Portland	IV	N & S	..	
Hope Bay ..	do	IV	NW & SE.	..	1 aftershock.
Port Antonio ..	do	IV	NE & SW.	35	
Manchioneal ..	do	IV	..	14	Double shock.
Bath ..	St. Thomas	IV	NE &	30	
Port Royal ..	..	III	S W	..	
Spanish Town ..	St. Catherine	III	E & W	..	
Linstead ..	do	III	NE & SW.	20	Double shock? Three consecutive waves.
Ewarton ..	do	III	..	..	Two shocks.
Unity Valley ..	St. Ann	III	N & S	..	3 waves, each stronger than the last.
Moneague ..	do	III	..	..	
Claremont ..	do	III	..	..	
Gayle ..	St. Mary	III	NW & SE.	..	
Port Maria ..	do	III	..	..	1 aftershock.
Ocho Rios ..	St. Ann	III	..	3	
St. Ann's Bay ..	do	III	..	..	
Alley ..	Clarendon	III	..	..	3 successive shocks.
Race Course ..	do	III	..	..	1 after shock.
Savoy ..	Clarendon	III	..	..	
Brown's Town ..	St. Ann	III	..	..	2 successive shocks
Clarks Town ..	Trelawny	III	E & W	8	3 successive shocks.
Falmouth ..	do	III	..	5	
Windsor Pen ..	Trelawny	III	NW& SE.	..	
Malvern ..	St. Elizabeth	III	..	7	1 aftershock
Siloah ..	do	IV	E & W	..	Double shock.
Lacovia ..	do	III	..	..	
Whitehouse ..	Westmoreland	III	NW & SE.	30	
Mt. Edgecombe ..	do	II	N & S	..	Duration short.
Kempshot ..	St. James	II	..	6	Double shock. Time 6.26 a.m.

Aftershocks felt at Moy Hall, two or three miles south of the Blue Mt. Peak.

Day.	Hour.	Intensity.	Direction.	Notes.
	hr. min.			
August 3rd ..	6 30 a.m.	I	N & S	First 8 shocks felt also at Fellowship.
	7 25 do	II	do	Also at Kingston, Halfway Tree, Race Course.
	8 30 do	I	do	Hope Bay, and elsewhere.
	8 40 do	I	do	
	9 50 do	II	E & W	Also at Halfway Tree.
	11 0 do	II	N & S	Lasted 4 sec.
	11 25 do	I	do	
	12 15 p.m.	II	E & W	
	1 15 do	II	N & S	
	3 30 do	I	do	
	7 40 do	I	do	
August 4th ..	12 30 a.m.	II	do	
	3 30 do	I	..	
	11 59 p.m.	I	..	
August 5th ..	9 0 a.m.	II	N & S	Sound from the south.
	3 25 p.m.	II	..	Halfway Tree: Port Antonio. At Port Antonio a light shock at 12.5 p.m.
	7 0 do	I	..	
August 6th ..	1 30 do	I	..	
	4 0 do	II	..	Halfway Tree, 3.40 p.m.?
	8 15 do	I	E & W	
" 12th ..	4 15 do	I	..	Also at Kingston, NW & SE, 0.008.
" 13th ..	8 30 do	I	..	
" 14th ..	1 15 do	I	..	
" 17th ..	9 25 do	I	..	

Maxwell Hall,
Govt. Meteorologist.

Weather Office,
Halfway Tree P.O.

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STACK

No. 433.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

AUGUST, 1914.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.980	29.952	82.4	85.0	86.8	79.7	7.1	88.0	18	76.0	25	12.0
Kingston ..	24	29.966	29.916	77.7	85.7	90.7	74.1	16.6	94.0	9*	72.2	26	21.8
Negril Point Light House ..	33	29.975	29.944	79.0	83.5	87.5	73.3	14.2	89.5	9*	69.8	13	19.7
Castleton Gardens ..	496	..	..	70.	87.2	92.1	64.6	27.5	100.	2	63.	7*	37
Hope Gardens† ..	668	29.965	29.894	75.8	86.7	91.6	71.6	20.0	97.	6	70.	14*	27
Stony Hill Indus. School ..	1,400	..	..	72.9	80.9	86.3	68.6	17.7	93.	2	66.	5*	27
Hill Gardens ..	4,900	25.313	25.257	64.5	69.	74.8	59.1	15.7	79.	31	58.	1*	21

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction from and miles per hour.				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	77.8	87	78.4	81	0.43	331	E	17	E	16	3.2	1.5	1.3	1.5	2.2	1.4
Kingston ..	24	70.3	78	73.2	66	0.80	232	N N E	4	SE	20	0.4	1.4	2.4	3.0	1.6	1.3
Negril Point Light House‡ ..	33	71.3	77	75.9	78	8.59	178	E	7	S	10	1.2	0.0	3.4	3.5	5.6	0.0
Castleton Gardens ..	496	62.2	76	72.7	63	3.32	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	62.5	64	69.5	57	2.64	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	68.6	86	70.5	70	6.13	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	58.7	81	60.9	76	0.68	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m. E 5.6

RAINFALL FOR AUGUST, 1914.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	AUGUST, 1914. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	3.03	0.85	14	7	7.17
Ecclesdown ...	7.01	1.10	19	19	..
Spring Valley, Portland ...	4.65	1.06	14	7	.
Bath ...	2.44	0.60	19	14	10.01
Boston ...	1.70	1.20	19	2	8.15
Moore Town ...	8.44	...	...	..	15.54
Port Antonio ...	7.05	1.18	20	17	10.76
Fellowship ...	7.92	0.95	17	21	14.28
Windsor, Portland ...	...	...	...	..	...
Johnson River Bridge ...	4.65	1.63	14	18	10.02
Shrewsbury ...	3.72	2.00	22	11	8.64
Cedar Valley, St. Thos. ...	1.76	0.66	14	5	9.76
Hope Bay ...	6.30	1.40	22	18	...
Moy Hall, St. Thos. ...	0.75	0.25	23	6	7.96
Lennox ...	8.20	1.50	22	18	..
Farm Hill ...	0.64	0.28	18	5	...
Hill Gardens ...	0.68	...	...	...	...
Buff Bay ...	1.59	0.36	11	8	5.70
Vinery ...	2.88	0.90	27	7	..
Windsor Castle, Port. ...	1.74	1.00	26	7	...
Greenvale, Portland ...	2.42	0.72	17	9	...
Mt. Holstein ...	1.03	0.36	22	11	6.69
Irish Town ...	5.51	1.72	14	5	5.96
Rose Hill ...	3.46	0.90	15	7	...
Hardware Gap ...	2.00	..	...	...	6.73
Stony Hill Ind. School ...	6.13	2.80	13	10	9.44
Castleton Gardens ...	3.32	...	...	..	...
Lawrence Tavern ...	2.96	0.83	15	6	8.58
Cedar Valley, Red Hills ...	10.43	3.72	19	13	...
Carew Castle ...	5.10	0.70	18	14	10.50
Agualta Vale ...	2.24	1.26	26	7	...
Water Valley ...	2.87	1.18	27	9	4.40
Albany, Ry. Station ..	..	...	...	...	...
Platfield ...	3.26	0.71	18	16	...
Richmond, St. Mary ...	2.10	0.91	20	7	4.97
Hampstead, St. Mary ...	1.54	1.04	26	3	...
Troja ...	6.12	1.85	15	8	...
Lucky Hill ...	1.37	0.42	26	6	...
Rio Hoe ...	2.38	0.97	28	10	6.27
Unity Valley ...	2.99	...	...	...	6.49
Moneague ...	2.10	0.60	20	8	6.03
Claremont ...	0.25	0.25	27	1	5.53
Albion, St. Ann ...	1.79	0.97	13	9	6.10
Averham Park ...	1.10	0.76	27	3	4.86
Means —	3.25	...	...	...	...

NORTHERN DIVISION.	AUGUST, 1914. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	0.63	0.19	12	5	4.72
Ocho Rios ...	1.34	0.91	20	4	2.72
Bogue, Ocho Rios ...	4.89	3.20	20	5	...
Drax Hall ...	2.15	1.85	20	4	3.59
Liberty Hill ...	2.28	1.35	27	4	...
St. Ann's Bay ...	1.13	0.95	20	6	2.65
Seville ...	0.78	0.57	20	5	3.55
Richmond Estate ...	0.35	0.15	27	3	3.36
Llandovery ...	0.31	0.21	27	2	2.86
Runaway Bay ...	0.80	0.70	27	2	...
Brown's Town ...	3.53	2.00	19	4	3.98
Alexandria ...	3.65	1.90	19	6	...
Chewmagna, St. Ann ...	4.19	2.90	19	8	5.24
Home Castle ...	4.50	2.25	19	3	3.61
Richmond Pen ...	2.65	0.75	19	8	4.89
Mahogany Hall ...	7.27	4.20	19	5	5.85
Barnstaple ...	3.51	1.25	27	8	...
Brampton Bryan ...	2.61	1.60	27	6	3.36
Bryan Castle ...	1.40	0.85	27	4	2.88
Braco ...	0.65	0.50	27	2	2.89
Arcadia ...	1.52	1.22	27	3	3.54
Lancaster ...	1.06	0.75	27	3	3.21
Harmony Hall ...	0.60	0.39	27	3	2.57
Vale Royal ...	1.83	1.42	27	4	4.54
Colchis Pen ...	3.21	0.78	19	8	5.32
Swanswick ...	3.43	1.50	27	9	...
Georgia ...	...	...	...	...	3.67
Long Pond ...	..	...	...	...	3.59
Hyde Hall ...	1.07	0.75	27	3	4.00
Steelfield ...	..	...	...	...	3.63
Etingdon ...	0.25	0.25	27	1	2.51
Lottery ...	0.25	0.20	27	2	3.56
Falmouth ...	0.26	0.18	14	3	2.77
Florence Hall ...	0.77	0.50	25	3	...
Good Hope ...	...	...	...	...	...
Unity ...	1.79	0.75	6	6	...
Kent ...	...	...	...	...	3.04
Gales Valley ...	...	...	...	...	...
Canaan ...	1.09	0.22	14	8	5.38
Content ...	...	...	...	...	...
Bellfield ...	1.78	1.52	13	4	...
Hampden ...	...	...	...	...	...
Moor Park ...	1.08	0.75	13	5	4.75
Rose Hall ...	...	...	...	...	...
Montego Bay ...	0.68	0.50	15	3	5.63
Catherine Hall ...	0.70	0.34	13	6	6.08
Retirement ...	1.16	0.38	7	10	...
King Gate ...	0.35	0.20	24	2	5.82
Round Hill ...	...	...	...	...	...
Blue Hole ...	3.01	0.96	30	6	...
Haughton Court ...	3.40	1.58	30	5	...
Lucea ...	2.78	1.48	30	6	6.86
Green Island, Police St. ...	4.72	1.02	4	13	...
CENTRAL SUB-DIVISION.					
Rio Magno ...	...	...	..	...	...
Headworks, Rio Cobre ...	9.08	2.16	18	12	5.75
Linstead ...	6.20	1.30	26	17	8.22
Berkshire Hall ...	4.94	1.70	15	12	5.51
Point Hill ...	6.87	1.85	4	15	12.37
Brown's Hall ...	8.31	1.50	16	13	8.16
Worthy Park ...	2.93	0.88	14	7	5.49
Croft Hill ...	3.18	1.50	15	4	...
Chapelton ...	4.19	1.29	17	11	6.81
Danks Works ...	4.29	1.25	14	13	5.84
Savoy House ...	4.68	1.25	14	14	6.04
Crooked River ...	9.94	2.76	15	13	...
Trout Hall ...	7.94	1.71	14	15	..
Cave Valley ...	7.58	3.50	14	15	7.25
Greenock ...	7.42	3.20	14	15	...
Means —	2.61	...	...	...	...

WEST-CENTRAL DIVISION.	AUGUST, 1914. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Whitney ...	6.80	1.80	15	10	8.72
Mocho, Clarendon ...	5.95	1.80	4	10	...
Baillieston ...	6.11	2.30	14	10	6.45
Brokenhurst ...	5.96	1.40	18	11	7.12
Christiana ...	5.02	1.15	14	16	6.44
Chudleigh ...	5.50	1.44	22	20	...
Shooter's Hill ...	7.55	2.20	14	17	...
Spitzbergen ...	4.37	1.02	14	14	...
Kendal, Manchester ...	...	...	...	...	...
Marshalls Pen ...	3.94	1.16	14	12	8.38
Mandeville ...	2.94	0.68	11	13	8.03
Carlton, Mandeville ...	3.18	0.72	11	13	6.25
The Hill ...	1.68	0.70	11	6	...
Fairfield, Manchester ...	2.19	0.54	11	17	5.37
Ulster Spring ...	1.52	0.65	10	5	6.91
Freeman's Hall ...	2.00	1.25	18	4	..
Albert Town ...	2.18	0.70	18	6	...
Lowe River ...	4.70	2.33	18	7	7.19
Troy ...	2.70	1.10	26	4	10.07
Windsor Pen, Trel. ...	3.27	1.26	6	13	...
Medina ...	3.21	1.21	18	8	...
Wallingford ...	4.15	1.54	18	13	...
Balaclava Police Station ...	3.20	1.40	18	12	...
Siloah ...	10.10	2.15	18	17	7.02
Appleton Estate ...	10.04	3.00	19	19	10.88
Maggotty ...	9.58	1.33	19	19	10.65
Butlers ..	10.02	2.15	3	18	...
Dromilly Pen ...	3.65	1.18	7	11	...
Spring Vale ...	6.81	1.90	24	10	11.61
Garland ...	...	...	...	...	...
Mocho, Catadupa ...	10.76	2.10	26	20	...
Springfield, St. Elizabeth	16.41	2.45	4	23	...
Chesterfield, St. James ...	...	...	...	...	...
Catadupa Rly. Station ...	...	...	...	...	...
Kempshot ...	2.79	0.75	22	9	8.61
Cambridge, St. James ...	7.61	2.08	30	19	...
Ducketts ...	...	...	...	...	...
Hazelymph ...	...	...	...	...	...
New Market, Police St. ...	10.45	1.55	12	16	...
The Bog, New Market ...	10.42	1.55	4	17	...
Kew Park ...	10.12	1.52	25	16	11.65
Knockalva ...	7.24	1.56	16	20	..
Ramble ...	9.99	2.50	16	18	...
Petersville ...	13 36	3.59	13	21	10.56
Darliston ...	12.90	2.10	4	21	14.62
Bluefields ...	9.83	1.50	19	18	...
Whithorn ...	9.90	1.10	11	20	11.74
Water Works Pen ...	9.65	2.00	10	19	...
Great Valley, Han. ...	7.88	1.75	5	7	...
Prospect Park ...	..	...	..	...	...
Blackheath ...	12.97	2.05	4	15	...
Fontabelle, Westm. ...	12.93	2.01	26	18	11.23
Belleisle ...	14.61	1.70	14	16	10.45
Morgan's Bridge ...	11 19	1.50	19	16	11.70
King's Vale Police St. ...	7.25	2.43	12	17	10.76
Means ...	7.07	...	...	...	...

SOUTHERN DIVISION.	AUGUST, 1914. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	0.43	0.18	24	6	5.31
Elliott Hill ...	2.12	0.49	18	16	...
Pleasant Hill ...	1.95	0.56	17	10	...
East Prospect ...	1.47	0.68	25	9	...
Morant Bay ...	1.93	0.34	24	16	5.68
Easington ...	2.39	0.58	25	8	6.17
Bull Bay ...	0.50	0.45	13	2	2.82
Bellevue ...	...	...	...	...	..
Gordon Town ...	..	...	...	...	...
Hope Gardens ...	2.64	...	...	...	...
King's House Gardens ...	3.97	...	...	...	...
Halfway Tree ...	3.15	0.95	27	5	3.54
Lunatic Asylum ...	1.06	0.50	18	9	2.59
Parade Gardens ...	...	..	...	...	..
Upper Elletson Road ...	1.59	0.58	18	10	...
Kingston P. W. Office ...	0.80	0.29	18	10	3.88
Plumb Point L. H. ...	0.41	0.15	13	5	3.50
Clifton Pen ...	1.77	0.83	18	6	...
Quarantine Station ...	1.48	1.30	18	2	...
Spanish Town ...	2.72	0.88	27	5	4.04
Hog Hole, St. Catherine...	5.02	1.66	14	5	4.53
Hartlands ...	1.70	1.10	27	3	3.21
Belmont, Guanaboa Vale	6.23	1.19	16	13	...
Old Harbour ...	4.98	2.22	27	4	4.66
May Pen ...	8.03	1.90	24	15	4.79
Dunkley's, Vere ...	0.82	0.50	14	3	...
Dry River " ...	0.73	0.45	23	5	...
Denbigh ...	5.13	1.33	24	9	4.92
Toll Gate ...	4.01	0.93	12	9	...
Woodleigh ...	5.75	2.20	24	9	..
New Yarmouth ...	0.76	0.31	23	5	3.86
Exeter, Vere ...	0.35	0.15	27	3	3.64
Rhymesbury ...	4.24	1.45	24	12	4.52
Milk River ...	0.75	0.35	28	3	5.26
Clarendon Pk. Ry. St. ...	5.60	1.15	17	14	...
Victoria Town ...	1.74	0.60	14	15	4.05
Hog Hole, S. Manch. ...	2.56	0.55	14	9	...
Stone's Hope ...	1.85	1.43	11	9	5.99
Newport, Manchester ...	4.44	1.07	18	14	5.39
Great Valley, Man. ...	0.92	0.21	12	6	4.49
Alligator Pond ...	0.58	0.30	14	3	3.08
Southfield, St. Elizabeth ...	2.01	0.69	31	6	...
Lititz ...	0.88	0.35	12	9	...
Long Hill ...	3.14	1.18	26	10	6.36
Torrington ...	3.68	1.04	31	6	4.55
Bethlehem, St. Eliz. ...	6.55	1.85	26	16	4.99
Santa Cruz ...	8.63	2.26	13	13	8.62
Pedro Plains Police St. ...	1.77	0.65	26	7	2.53
Black River ...	5.41	1.37	24	17	5.95
Font Hill ...	7.30	1.40	18	16	6.06
Mount Edgecombe ...	12.98	2.08	12	22	8.19
Sweet River ...	6.10	1.27	12	12	8.75
Windsor, Sav.-la-mar ...	7.38	1.87	9	16	7.38
Orchard ...	9.41	1.81	24	18	...
Sav.-la-mar ...	7.88	2.21	22	16	7.49
Meyersfield ...	8.62	1.50	16	14	..
Retreat ...	9.61	1.38	25	17	8.70
White Hall ...	12.13	1.78	22	19	...
Negril Point L.H. ...	8.59	2.17	22	19	6.76
Means ...	3.97	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

—	August.	
	1914.	Average.
	In.	In.
North-Eastern Division ...	3.25	7.71
Northern „ ...	2.61	4.83
West-Central „ ...	7.07	9.88
Southern „ ...	3.97	5.14
The Island ...	4.22	6.89

The heaviest rainfall 16.41 inches was recorded at Springfield, St. Elizabeth; and the lowest, 0.25, was recorded at Claremont, Etingdon and Lottery.

Shocks of Earthquake in August, 1914.

Date.	Mean time.		Intensity.	Notes: where felt, etc.
	hr.	min.		
3	6	25 a.m.	V.	East end of the Island chiefly; see lists of shocks and after-shocks below :
19	10	46 a.m.	III.	Mt. Holstein NW & SE .012
			"	Kingston NW & SE .175; 5 sec.
			"	Moy Hall, also felt at Port Antonio and Yallahs.
22	6	25 p.m.	I.	Moy Hall
30	12	50 a.m.	II.	Mt. Holstein N & S .008
			" "	E & W .007
31	12	50 a.m.	I.	" " N 69° E .005
			" "	N 40 W .004
	3	0 a.m.	I.	Moy Hall

Plumb Point Light House—

Average No. of Miles of wind per diem	166
Greatest on the 14th	306
Least on the 24th	78

THE EARTHQUAKES OF AUGUST 3RD, 1914. 6.25 a.m.

Place.	Parish.	Intensity.	Direction.	Duration.	Notes.
				sec.	
Moy Hall ..	St. Thomas	V	N & S	15	24 aftershocks: see below.
Mt. Holstein ..	Portland	V	NW & SE.	45	Motion of ground 0.18 in. Fifteen aftershocks: see below.
Fellowship ..	do	V	..	15	8 aftershocks.
Seaforth ..	St. Thomas	V	..	10	10 aftershocks.
Morant Bay ..	do	V	..	20	Several aftershocks.
Yallahs ..	do	V	..	40	2 aftershocks.
Kingston ..	..	IV	N W& SE.	35	Time 6.25 a.m. Motion of ground 0.33 in.
Halfway Tree	St. Andrew	IV	N & S	..	2 aftershocks. Motion at first E & W.
Stony Hill ..	do	IV	..	..	Double shock: 1 aftershock.
Glengoffe	St. Mary	IV	..	30	Double shock: 1 aftershock.
Scotts Hall ..	do	IV	..	..	Double shock.
Clonmel ..	do	III?	..	..	Aftershocks throughout the day.
Highgate ..	do	IV	..	..	
Annotto Bay ..	do	IV	..	..	
Buff Bay ..	Portland	IV	N & S	..	
Hope Bay ..	do	IV	NW & SE.	..	1 aftershock.
Port Antonio ..	do	IV	NE & SW.	35	
Manchioneal ..	do	IV	..	14	Double shock.
Bath ..	St. Thomas	IV	NE & S W	30	
Plumb Pt. L.H. ..	..	..	NNW & SSE	23	
Port Royal ..	..	III	..	..	
Spanish Town ..	St. Catherine	III	E & W	..	
Linstead ..	do	III	NE & SW.	20	Double shock? Three consecutive waves.
Ewarton ..	do	III	..	..	Two shocks.
Unity Valley ..	St. Ann	III	N & S	..	3 waves, each stronger than the last.
Moneague ..	do	III	..	..	
Claremont ..	do	III	..	..	
Gayle ..	St. Mary	III	NW & SE.	..	
Port Maria ..	do	III	..	..	1 aftershock.
Ocho Rios ..	St. Ann	III	..	3	
St. Ann's Bay ..	do	III	..	..	
Alley ..	Clarendon	III	..	..	3 successive shocks.
Race Course ..	do	III	..	..	1 aftershock.
Savoy ..	Clarendon	III	..	..	
Brown's Town ..	St. Ann	III	..	..	2 successive shocks
Clarks Town ..	Trelawny	III	E & W	8	3 successive shocks.
Falmouth ..	do	III	..	5	
Windsor Pen ..	Trelawny	III	NW& SE.	..	
Malvern ..	St. Elizabeth	III	..	7	1 aftershock
Siloah ..	do	IV	E & W	..	Double shock.
Lacovia ..	do	III	..	..	
Whitehouse ..	Westmoreland	III	NW & SE.	30	
Mt. Edgecombe ..	do	II	N & S	..	Duration short.
Sav.-la-Mar ..	Westm.	II	..	..	Several shocks.
Petersfield ..	do	II	N & S	..	Double shock.
Great Valley ..	Hanover	III	NE & SW.	38	Three max. and min. (or waves).
Negril Pt. L.H. ..	do	..	NW & SE	15	Motion of ground 0.27 Time 6.25 a.m.
do.	do	III	NE & SW.	..	do 0.20
Kempshot ..	St. James	II	..	6	Double shock. Time 6.26 a.m.

After shocks felt at Mt. Holstein, 7 miles SSW of Buff Bay.

Day.	Hour (approximate).	Intensity.	Direction and motion of the ground.	Notes.
	hr. min.		in.	
Aug. 3rd ..	7 30 a.m.	II	NW & SE 0.019	
	8 45 "	I	" .006	
	9 51 "	II	" .008	
	11 15 "	I	" .006	
	12 20 p.m.	I	" .005	
	8 42 "	II	" .012	
Aug. 4th ..	12 30 a.m.	..	..	Slight tremors.
	9 5 "	II	" .012	
Aug. 5th ..	3 0 "	I	" .004	
	12 5 p.m.	I	"	Slight.
	2 10 "	I	"	Two shocks.
	3 20 "	I	" .005	
Aug. 6th ..	5 20 "	..	..	Slight.
Aug. 8th ..	1 30 a.m.	I	NE & SW .005	
Aug. 9th ..	Night	I	" 0.006	

Aftershocks felt at Moy Hall, two or three miles south of the Blue Mt. Peak.

Day.	Hour. (approximate.)	Intensity.	Direction.	Notes.
	hr. min.			
August 3rd ..	6 30 a.m.	I	N & S	First 8 shocks felt also at Fellowship.
	7 25 do	II	do	Also at Kingston, Halfway Tree, Race Course,
	8 30 do	I	do	Hope Bay, and elsewhere.
	8 40 do	I	do	
	9 50 do	II	E & W	Also at Halfway Tree.
	11 0 do	II	N & S	Lasted 4 sec.
	11 25 do	I	do	
	12 15 p.m.	II	E & W	
	1 15 do	II	N & S	
	3 30 do	I	do	
	7 40 do	I	do	
August 4th ..	12 30 a.m.	II	do	
	3 30 do	I	..	
	11 59 p.m.	I	..	
August 5th ..	9 0 a.m.	II	N & S	Sound from the south.
	3 25 p.m.	II	..	Halfway Tree: Port Antonio. At Port Antonio a light shock at 12.5 p.m.
	7 0 do	I	..	
August 6th ..	1 30 do	I	..	..
	4 0 do	II	..	Halfway Tree, 3.40 p.m.? At Unity Valley a
	8 15 do	I	E & W	slight tremor at 7 p.m.
" 12th ..	4 15 do	I	..	Also at Kingston, NW & SE, 0.008.
" 13th ..	8 30 do	I	..	
" 14th ..	1 15 do	I	..	
" 17th ..	9 25 do	I	..	

The meteorological conditions on Aug. 3rd were much as usual, but very high temperatures were recorded at Castleton and Stony Hill the day before.

From the tracing of an aneroid barometer in Kingston, we find that the small fall so often noticed at the time of a well marked shock, occurred 16 hours after the shock on Aug. 3rd.:—

	Corr. D.V.
	in.
24 hours before shock	29.99
16 do	.95
8 do	.98
At time of shock	.98
8 hours after shock	.96
16 do	.90
24 do	.96
With regard to the Wind:—	
Day before the shock	310 miles
Day of the shock	196 miles
Day after the shock	214 miles

Consequently the diminution of the wind on the day of the shock is more strongly marked than usual. The average fall of the barometer and diminution of the wind were given in connection with the Great Earthquake of 1907, W. R. No. 337, p. 10.

NOTES ON THE EARTHQUAKE, AUGUST 3RD.

This earthquake was chiefly felt as a wave, or a series of two or three waves, and the rapid oscillating tremors which usually precede such waves were hardly felt. The seismometer at the Weather Office, Halfway Tree, showed E and W tremors of 0.06 inches to commence with, and then showed that the pendulum swung altogether out of place, the paved verandah on which it stood having settled down to the N. And all the other seismometers in the Island showed more or less disturbance.

If on the map of Jamaica we draw two oval curves, one enclosing those places where the intensity was V, and the other enclosing those places where the intensity was IV, we see that they agree in pointing out that the maximum disturbance was on the Blue Mountain range and not far from the Peak. The shock on or near the Blue Mountain range was sufficient to crack massive mason-work walls and to produce land slides, the largest being probably near the source of the Wild Cane River; and in the town of Morant Bay and the villages of Fellowship and Yallahs great damage was done to the churches and other buildings of mason-work.

In Kingston the intensity was IV; the walls of many houses were cracked, and old walls were thrown down; but the new buildings of reinforced concrete are said to have stood the shock very well. In almost all the towns and villages where this intensity was experienced considerable damage was done to the churches and other mason-work buildings.

As already said, double or even treble waves or shocks were felt at many places, separated by a few seconds of time. At Siloah there was a double shock of IV intensity; at Negril Point there were shocks from two distinct directions at the very same time that the shocks were felt in Kingston; at Great Valley the three shocks or waves continued as long or longer than the shocks or waves in Kingston; and at Moy Hall the aftershocks came from either N and S, or from E and W.

This seems to show that at the time of an earthquake several centres may concur to produce a great shock, or to transmit a series of shocks from one end of the Island to the other. The shocks from the different centres were revised last year in W. R. Nos. 419-424; and in the last W. R. p. 6. Table II, contained 45 shocks apparently unconnected with any epicentre. Further study showed that there was a small centre D_2 at the west end of the Island, and two centres B_2 and B_3 among the Blue Mountains at the east end of the Island; so that there are now very few shocks fel between 1881 and the present time which are apparently unconnected with any epicentre.

Now if we compute the times when shocks from the different epicentres were due on or about Aug. 3rd we get the following list:—

B	Aug.	2.7
B_2	"	4.2
M_w	"	3.4
S	"	4.1
D	"	4.4
D_2	July	31.6

so that there were five epicentres due within 26 hours of Aug. 3.3, the time of the shock.

Following up this idea, B would give Moy Hall the N and S shocks, while B_2 would give the E & W shocks; B and B_2 would both give Mt. Holstein NW and SE shocks; near Moneague M_w may have helped to produce the two or three shocks or waves; indeed the seismometer at Halfway Tree seemed to show that M_w began it all. Further west, S near Siloah increased the action very considerably; there can be no doubt that a IV shock occurred there and was rather alarming—D near Darliston gave off a shock; and it is to be presumed that D and D_2 produced the two shocks which were felt at Negril Point and which came from different directions.

Of course the positions of the epicentres were not very well known, especially of those among the Blue Mountains; but on January 2nd, 1908, the position of S can be fairly well ascertained from its ntensity at the different surrounding places; and then further study shows that the direction of the

shock at each place follows a well-defined law; and by considering other earthquakes the epicentres have been fairly well ascertained and the law established; for while places at a considerable distance from an epicentre give only an approximate position, places close to the epicentre give its position with considerable accuracy, supposing that the law for all places holds good.

On the map of Jamaica let a straight line be drawn from an epicentre O to any place P where a shock is felt from that epicentre; and let a short line be drawn through P so as to make an angle of 45° with OP produced, measuring the angle anti-clock wise; then the shocks at P will be along the short line.

Thus places E and W of O have shocks NE and SW, places NE and SW of O have shocks N and S, places N and S of O have shocks NW and SE, and places NW and SE of O have shocks E and W. A small drawing on tracing paper will make all this quite plain and simple.

In many cases a place is affected by two epicentres; but if the shock is supposed to come from somewhere between them the direction of the shock may be seen to be correct although the angle cannot be measured.

A few notes on the circumstances attending this and a few other earthquakes may prove interesting; and we shall first take 1908 Jan. 2nd., or rather Jan. 2.3, the decimals of the day being reckoned from midnight; now S was due Jan. 1.9, and B was due Jan. 3.8; both these epicentres gave off shocks, S of V intensity, and B of much less. From nine places round S it was found that the epicentre was about 2 miles north-west of Appleton, and that the average angle was about 50°. With regard to B, Kingston and Mt. Holstein placed it near the Hardware Gap; but other earthquakes place it sometimes at Catherine's Peak, sometimes at Caledonia Mt., that is to say a mile or two on either side of the Gap.

With regard to the earthquake of 1909, July 2.5, B was due July 1.0 and B_3 was due July 1.3; both these shocks were recorded at Kingston and Mt. Holstein, and their combined effect was recorded at Chapelton as N 64° E, the other tracing being probably due to swaying of the pendulum. And confirming the position of B, it will be also found that B_3 is about 3 miles ESE of Newcastle.

We have now to consider the great earthquake of 1907 Jan. 14.6. The epicentres were due as follows:—P, Jan. 14.8; H, Jan. 14.8; M_w, Jan. 17.7; and C, Jan. 15.1. The position of H can hardly be ascertained with greater accuracy than before, namely 15 miles S of Bull Bay; but from the large number of directions of shock at different places, it can be made out that P in the Port Royal Mountains is between Flamstead and Bloxburgh; M_w is between the Bull Head and Mt. Diabolo; and C is near Cascade and Brownsville at the east end of the Dolphin Head range.

Lastly, there is the earthquake under consideration, and we have already indicated the different centres which were due; and there is no difficulty in showing that B_2 lies a mile or so northwest of Cedar Valley in St. Thomas; that D is about 4 miles north of Darliston in Westmoreland, and that D_2 lies off north Negril Point.

Of course there were far more directions among these earthquakes than were required to ascertain the positions of the epicentres; and having once got the epicentres down on the map, it may be said that out of 67 directions there are only 4 or 5 wrong, which is rather surprising considering all the circumstances, and which certainly seems to establish the law of direction of shock. The average direction seems to be about 50° instead of 45° as given above for the sake of simplicity.

The angle of 45° really applies to shocks of II intensity; the angle increases to 65° for shocks of V and VI intensity; but it must be understood that these numerical values apply only to averages. For shocks of I intensity, the directions are often untrustworthy.

Maps should now be prepared showing the positions of all the epicentres, and the directions of the shocks during different earthquakes; and investigation should be made into the circumstances under which the endless combinations of "shocks due" lead to the production of "earthquake" whether of greater or less intensity.

MAXWELL HALL,
Government Meteorologist.

The Weather Office,
Halfway Tree P.O.

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UNIVERSITY OF ILLINOIS
NOV 1914

No. 434.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

SEPTEMBER, 1914.

The Bar-pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.936	29.901	82.2	85.1	86.8	79.1	7.7	88.0	16	71.5	11	16.5
Kingston ..	24	29.918	29.874	77.3	86.2	90.8	74.2	16.6	94.6	9	72.7	1 *	21.9
Negril Point Light House ..	33	29.926	29.888	79.4	84.2	87.7	73.4	14.3	88.8	10	70.9	2	17.9
Castleton Gardens ..	496	..	..	69.1	83.9	90.3	63.8	26.5	95.	9*	62.	25*	33
Hope Gardens† ..	668	29.916	29.853	75.4	85.9	90.8	70.6	20.2	96.	7	68.	11	28
Stony Hill Indus. School ..	1,400	..	..	73.6	80.1	86.5	69.2	17.3	91.0	30	67.0	21*	24.0
Hill Gardens ..	4,900	25.275	25.248	65.4	67.8	73.6	58.8	14.8	78.	8*	58.	8*	20

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction from and miles per hour.				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	74.6	78	74.9	72	1.91	295	E N E	16	E by N	13.3	2.2	2.0	1.7	1.3	2.6	1.9
Kingston ..	24	70.0	78	73.5	63	0.82	216	NEby N	3.7	SE	18.4	1.1	0.8	2.3	2.2	1.9	2.5
Negril Point Light House‡ ..	33	71.4	76	74.2	73	4.69	174	E by S	8.4	S by E	9.8	0.7	0.3	3.7	2.3	6.1	0.3
Castleton Gardens ..	496	67.3	93	68.0	59	4.59	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	67.1	76	70.9	61	4.06	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	67.9	82	70.7	73	1.75	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	54.7	70	62.9	84	1.58	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m. ENE 6.8

RAINFALL FOR SEPTEMBER, 1914.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	SEPTEMBER, 1914. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	2.07	1.00	23	4	10.80
Ecclesdown ...	4.61	2.10	24	10	..
Spring Valley, Portland ...	3.68	1.43	24	10	.
Bath ...	3.08	0.67	24	13	12.03
Boston ...	1.45	1.15	24	2	11.04
Moore Town ...	3.60	...	...	..	14.21
Port Antonio ...	4.16	1.50	16	11	10.43
Fellowship ...	2.33	0.53	23	9	12.93
Windsor, Portland ...	...	...	...	..	...
Johnson River Bridge ...	2.64	0.58	24	14	11.48
Shrewsbury ...	1.33	0.50	24	4	11.60
Cedar Valley, St. Thos. ...	2.99	1.24	15	7	13.40
Hope Bay ...	1.70	0.50	25	6	...
Moy Hall, St. Thos. ...	2.08	0.95	16	6	10.92
Lennox ...	1.87	0.75	25	8	...
Farm Hill ...	0.85	0.30	24	3	...
Hill Gardens ...	1.58	...	...	...	9.84
Buff Bay ...	1.25	0.41	16	4	4.94
Vinery ...	3.07	2.10	16	6	...
Windsor Castle, Port. ...	1.45	0.65	2	4	...
Greenvale, Portland ...	1.16	0.54	15	7	...
Mt. Holstein ...	2.30	1.24	14	8	9.02
Irish Town ...	3.46	1.35	21	6	9.40
Rose Hill ...	5.39	2.41	20	5	...
Hardware Gap ...	4.50	..	...	...	9.02
Stony Hill Ind. School ...	1.75	0.38	4	16	9.82
Castleton Gardens ...	4.59	...	...	...	11.21
Lawrence Tavern ...	3.56	1.00	12	7	9.53
Cedar Valley, Red Hills ...	2.56	0.72	22	8	...
Carew Castle ...	5.49	1.26	20	11	12.93
Agualta Vale ...	3.27	2.40	16	4	...
Water Valley ...	1.92	1.58	16	4	5.32
Albany, Ry. Station ..	..	...	...	...	...
Platfield ...	4.58	1.30	29	10	...
Richmond, St. Mary ...	6.34	1.82	14	6	5.59
Hampstead, St. Mary ...	1.07	1.07	16	1	...
Troja ...	4.80	1.36	19	7	...
Lucky Hill ...	1.14	0.10	16	2	...
Rio Hoe ...	2.25	0.50	25	7	6.18
Unity Valley ...	5.24	1.46	4	9	8.20
Moneague ...	1.66	0.40	5	8	7.14
Claremont ...	1.83	0.61	16	4	5.31
Albion, St. Ann ...	2.17	0.75	16	8	6.98
Averham Park ...	1.81	0.99	16	4	4.83
Means ...	2.87	...	...	...	...

NORTHERN DIVISION.	SEPTEMBER, 1914. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	2.81	0.65	6	8	3.88
Ocho Rios ...	4.72	1.90	18	5	3.93
Bogue, Ocho Rios ...	3.48	1.28	18	3	...
Drax Hall ...	4.00	2.40	16	3	3.98
Liberty Hill ...	3.66	1.90	16	3	...
St. Ann's Bay ...	2.95	1.43	16	5	3.31
Seville ...	2.75	0.56	16	4	3.60
Richmond Estate ...	1.97	1.21	16	5	...
Llandovery ...	1.40	1.05	16	4	3.72
Runaway Bay ...	0.70	0.40	16	3	...
Brown's Town ...	2.88	1.31	14	3	5.30
Alexandria ...	2.50	0.50	4	5	...
Chewmagna, St. Ann ...	5.51	0.93	29	12	7.41
Home Castle ...	3.55	1.20	16	7	4.56
Richmond Pen ...	4.25	1.10	15	7	5.88
Mahogany Hall ...	3.40	0.92	15	10	6.97
Barnstaple ...	4.92	1.00	11	7	...
Brampton Bryan ...	4.30	1.42	19	7	3.91
Bryan Castle ...	2.11	0.67	11	10	3.44
Braco ...	1.35	0.50	16	5	3.31
Arcadia ...	2.75	0.77	11	7	4.02
Lancaster ...	...	...	...	...	...
Harmony Hall ...	...	...	...	...	...
Vale Royal ...	2.46	0.60	22	7	4.64
Colchis Pen ...	3.77	0.74	4	11	5.23
Swanswick ...	3.57	0.73	15	9	...
Georgia ...	...	...	...	...	...
Long Pond ...	..	...	...	...	...
Hyde Hall ...	1.53	0.44	16	8	5.20
Steelfield ...	..	...	...	...	...
Etingdon ...	1.33	0.75	16	6	3.13
Lottery ...	2.10	0.90	20	5	4.38
Falmouth ...	0.43	0.40	16	2	3.46
Florence Hall ...	1.73	1.18	16	4	...
Good Hope ...	...	...	...	...	...
Unity ...	7.16	2.09	1	17	..
Kent ...	...	...	...	...	...
Gales Valley ...	...	...	...	...	...
Canaan ...	3.84	1.22	26	10	7.96
Content ...	...	...	...	...	...
Bellfield ...	3.66	1.26	4	9	...
Hampden ...	...	...	...	...	...
Moor Park ...	3.21	1.10	15	7	6.13
Rose Hall ...	...	...	...	...	...
Montego Bay ...	3.84	1.65	16	8	6.91
Catherine Hall ...	4.57	1.94	16	10	8.23
Retirement ...	4.38	1.22	11	13	...
King Gate ...	7.36	1.88	11	8	7.04
Round Hill ...	...	...	...	...	...
Blue Hole ...	11.46	2.55	17	12	...
Haughton Court ...	7.53	2.04	15	15	...
Lucea ...	8.75	1.45	15	13	7.68
Green Island, Police St. ...	7.57	1.30	26	15	...
CENTRAL SUB-DIVISION.					
Rio Magno ...	...	...	..	...	...
Headworks, Rio Cobre ...	1.09	1.42	21	4	6.54
Linstead ...	2.40	0.50	13	11	8.01
Berkshire Hall ...	5.73	4.10	1	7	5.30
Point Hill ...	3.20	1.16	28	12	11.54
Brown's Hall ...	...	...	...	...	...
Worthy Park ...	2.28	0.64	10	6	7.56
Croft Hill ...	...	...	..	...	...
Chapelton ...	2.20	0.98	10	5	7.91
Danks Works ...	2.21	1.05	10	6	9.37
Savoy House ...	2.50	1.01	10	8	9.35
Crooked River ...	7.11	1.85	11	11	...
Trout Hall ...	9.42	2.87	10	13	..
Cave Valley ...	8.25	2.10	3	15	7.61
Greenock ...	7.90	2.00	3	15	...
Means ...	3.38	...	...	...	...

West-Central Division.	September, 1914. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Whitney ...	4.50	1.70	16	8	11.19
Mocho, Clarendon ...	3.50	1.00	1	6	...
Baillieston ...	...	...	...	...	...
Brokenhurst ...	1.60	1.00	20	4	9.33
Christiana ...	2.05	0.80	16	8	9.97
Chudleigh ...	1.69	0.55	25	9	...
Shooter's Hill ...	3.46	1.22	16	13	...
Spitzbergen ...	2.31	0.70	16	13	...
Kendal, Manchester ...	2.82	1.09	8	6	9.53
Marshalls Pen ...	1.57	0.55	9	7	8.79
Mandeville ...	2.79	1.20	9	10	10.04
Carlton, Mandeville ...	2.90	1.09	9	11	9.73
The Hill ...	0.68	0.50	9	3	...
Fairfield, Manchester ...	1.26	0.50	15	7	7.80
Ulster Spring ...	10.96	2.25	18	10	8.44
Freeman's Hall ...	7.79	2.00	20	7	..
Albert Town ...	7.93	1.20	20	4	...
Lowe River ...	6.20	1.50	18	9	10.21
Troy ...	5.90	1.30	17	10	13.77
Windsor Pen, Trel. ...	8.19	1.20	1	18	9.06
Medina ...	3.39	1.48	21	8	...
Wallingford ...	4.80	1.80	21	15	...
Balaclava Police Station ...	4.45	1.45	21	13	10.31
Siloah ...	9.15	2.55	21	17	...
Appleton Estate ...	8.15	2.94	21	18	11.50
Maggotty ...	8.27	2.29	21	16	11.84
Butlers ...	7.83	2.00	7	16	...
Dromilly Pen ...	11.01	3.04	2	15	...
Spring Vale ...	...	...	...	...	...
Garland ...	...	...	...	...	...
Mocho, Catadupa ...	8.57	2.45	16	19	...
Springfield, St. Elizabeth	11.02	2.34	10	13	5.71
Chesterfield, St. James ...	...	...	...	...	...
Catadupa Rly. Station ...	...	...	..	...	...
Kempshot ...	6.71	1.84	11	19	9.64
Cambridge, St. James ...	11.10	2.30	16	19	...
Ducketts ...	...	...	...	...	...
Hazelymph ...	...	...	...	...	...
New Market, Police St. ...	5.35	1.20	16	9	...
The Bog, New Market ...	8.03	1.35	17	13	...
Kew Park ...	12.60	3.13	16	21	12.06
Knockalva ...	10.29	4.52	16	19	..
Ramble ...	16.42	4.65	16	16	...
Petersville ...	4.13	0.96	22	12	9.83
Darliston ...	17.48	4.68	16	18	13.79
Bluefields ...	5.28	1.75	1	10	12.34
Whithorn ...	12.06	3.70	1	16	12.06
Water Works Pen ...	10.38	2.05	1	15	...
Great Valley, Han. ...	11.94	3.00	16	12	12.27
Prospect Park ...	..	...	..	...	...
Blackheath ...	6.21	1.35	14	11	...
Fontabelle, Westm. ...	6.41	1.51	1	13	10.90
Belleisle ...	5.12	1.75	21	10	10.70
Morgan's Bridge ...	6 91	1.70	1	10	12.18
King's Vale Police St. ...	5.91	1.29	3	14	11.44
Means ...	6.55	...	...	...	...

Southern Division.	September, 1914. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	1.91	1.21	23	7	7.31
Elliott Hill ...	2.79	0.72	7	17	...
Pleasant Hill ...	2.83	0.65	6	16	...
East Prospect ...	2.24	0.44	24	8	...
Morant Bay ...	2.18	0.93	23	10	8.41
Easington ...	1.34	0.50	24	8	8.71
Bull Bay ...	1.00	0.70	16	2	4.70
Bellevue ...	...	...	...	...	..
Gordon Town ...	2.76	1.13	21	6	8.57
Hope Gardens ...	4.06	...	...	...	7.04
King's House Gardens ...	1.77	...	...	...	5.03
Halfway Tree ...	0.33	0.33	9	1	5.09
Lunatic Asylum ...	0.62	0.38	16	4	4.72
Parade Gardens ...	...	..	...	...	...
Upper Elletson Road ...	1.26	0.98	18	5	...
Kingston P. W. Office ...	0.82	0.75	18	3	4.18
Plumb Point L. H. ...	0.34	0.12	16	3	3.81
Clifton Pen ...	1.60	1.25	18	3	...
Quarantine Station ...	0.82	0.54	18	3	..
Spanish Town ...	1.09	1.00	18	2	5.30
Hog Hole, St. Catherine...	0.11	0.11	18	1	6.33
Hartlands ...	0.51	0.34	18	2	4.39
Belmont, Guanaboa Vale	1.50	0.85	3	7	...
Old Harbour ...	1.02	0.42	10	5	6.45
May Pen ...	0.34	0.18	21	3	7.89
Dunkley's, Vere ...	1.98	1.00	10	6	6.52
Dry River " ...	1.24	0.62	16	5	...
Denbigh ...	...	...	...	...	...
Toll Gate ...	1.71	0.88	10	3	...
Woodleigh ...	..	...	...	...	...
New Yarmouth ...	1.02	0.42	16	5	5.73
Exeter, Vere ...	0.40	0.15	23	4	...
Rhymesbury ...	2.10	0.96	10	5	5.96
Milk River ...	0.30	0.30	16	1	6.33
Clarendon Pk. Ry. St. ...	...	...	...	...	...
Victoria Town ...	1.05	0.41	15	4	7.48
Hog Hole, S. Manch. ...	1.13	0.90	16	3	..
Stone's Hope ...	1.33	0.45	10	4	8.30
Newport, Manchester ...	2.34	1.58	10	6	7.49
Great Valley, Man. ...	0.61	0.27	26	4	6.63
Alligator Pond ...	1.88	1.49	18	2	4.98
Southfield, St. Elizabeth ...	0.23	0.13	18	3	...
Lititz ...	0.45	0.45	10	1	...
Long Hill ...	...	...	...	...	...
Torrington ...	...	...	...	...	...
Bethlehem, St. Eliz. ...	2.17	0.63	3	5	6.78
Santa Cruz ...	4.02	2.34	21	6	10.38
Pedro Plains Police St. ...	0.15	0.10	18	2	4.90
Black River ...	0.64	0.22	16	7	5.75
Font Hill ...	1.35	0.80	26	3	7.11
Mount Edgecombe ...	2.78	0.75	22	14	8.39
Sweet River ...	6.30	2.25	21	10	7.83
Windsor, Sav.-la-mar ...	7.55	3.25	1	13	7.26
Orchard ...	7.93	1.41	21	15	...
Sav.-la-mar ...	8.38	2.18	1	14	6.96
Meyersfield ...	9.99	3.30	14	9	..
Retreat ...	8.96	2.14	14	11	8.28
White Hall ...	6.29	1.53	27	10	...
Negril Point L.H. ...	4.69	0.90	26	15	7.51
Means ...	2.22	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

—	September. 1914.	September. Average.
	In.	In.
North-Eastern Division ...	2.87	8.68
Northern „ ...	3.38	5.70
West-Central „ ...	6.55	10.78
Southern „ ...	2.22	6.49
The Island ...	3.76	7.91

The heaviest rainfall 17.48 inches was recorded at Darliston; and the lowest, 0.15, was recorded at Pedro Plains Police Station.

Shocks of Earthquake in September, 1914.

Date.	Mean time.	Intensity.	Notes: where felt, etc.
	hr. min.		
12	...	I.	Mt. Holstein and Moy Hall NE & SW 0.005
22	7 4 a.m.	I.	Mt. Holstein, Double shock NW & SE 0.007

Plumb Point Light House—

Average No. of Miles of wind per diem	160
Greatest on the 28th	298
Least on the 2nd	78

Maxwell Hall,
Govt. Meteorologist.

Weather Office,
Halfway Tree P. O.

No. 435.

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JAMAICA

WEATHER REPORT

FOR THE MONTH OF

OCTOBER, 1914.

The Bar. pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32°, gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.931	29.871	80.4	84.0	86.2	76.6	9.6	88.5	29	71.0	23	17.5
Kingston ..	24	29.900	29.852	76.6	84.2	90.7	73.9	16.8	94.7	11	71.2	22	23.5
Negril Point Light House ..	33	29.909	29.862	78.8	84.2	87.0	73.5	13.5	90.2	7	69.6	13*	20.6
Castleton Gardens ..	496	..	..	69.0	82.9	89.4	63.6	25.8	93.	30	60.	22	33.
Hope Gardens† ..	668	29.915	29.838	75.0	83.6	89.5	70.6	18.9	93.	1*	68.	21	25.
Stony Hill Indus. School ..	1,400	..	..	71.6	78.8	85.3	68.1	17.2	91.	5	67.	3*	24.
Hill Gardens ..	4,900	25.270	25.255	64.5	65.6	70.8	57.3	13.5	76.	7	55.	22	21.

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction from and miles per hour.				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	74.5	82	74.6	73	2.76	216	NE by E	10	E	9.3	3.3	0.6	1.5	3.3	0.7	1.8
Kingston ..	24	71.0	83	73.3	70	1.58	169	N E	4.7	SE	12.3	1.2	0.6	1.8	2.5	1.7	3.9
Negril Point Light House‡ ..	33	71.6	79	72.6	68	5.29	223	E S E	8.4	S E	12.2	0.8	1.2	3.2	2.6	5.0	0.7
Castleton Gardens ..	496	67.2	93	73.1	72	9.26	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	71.4	87	71.8	67	6.55	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	67.2	86	71.4	78	12.79	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	58.9	84	62.8	93	9.44	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m. E by N 7.6

RAINFALL FOR OCTOBER, 1914.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	OCTOBER, 1914. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	7.66	2.75	22	10	18.91
Ecclesdown ...	8.26	2.00	23	11	..
Spring Valley, Portland ...	9.37	2.45	22	14	.
Bath ..	6.52	2.72	22	11	18.37
Boston ...	2.20	1.00	20	3	13.11
Moore Town ...	7.25	...	...	..	21.93
Port Antonio ...	5.93	1.45	2	9	15.16
Fellowship ...	5.38	1.53	2	11	18.37
Windsor, Portland ...	...	...	...	..	...
Johnson River Bridge ...	4.23	1.13	24	11	13.85
Shrewsbury ...	3.29	1.43	12	6	12.70
Cedar Valley, St. Thos. ...	3.60	1.20	24	9	15.05
Hope Bay ...	...	..	...	...	..
Moy Hall, St. Thos. ...	6.41	1.20	18	12	19.97
Lennox ...	1.85	0.55	11	9	...
Farm Hill ...	8.46	1.85	12	11	...
Hill Gardens ...	9.44	...	...	...	
Buff Bay ...	1.74	0.63	20	8	11.76
Vinery ...	2.08	0.68	23	6	..
Windsor Castle, Port. ...	0.99	0.29	3	4	...
Greenvale, Portland ...	2.66	0.50	31	14	...
Mt. Holstein ...	9.29	2.50	12	14	12.72
Irish Town ..	9.31	2.25	9	...	11.46
Rose Hill ...	13.22	2.30	30	14	...
Hardware Gap ...	10.00	..	...	...	16.36
Stony Hill Ind. School ...	12.79	2.26	17	14	14.38
Castleton Gardens ...	9.26	...	...	.	
Lawrence Tavern ...	7.51	1.42	21	15	12.71
Cedar Valley, Red Hills ...	6.51	1.14	18	13	...
Carew Castle ...	6.62	1.19	31	15	13.03
Agualta Vale ...	2.75	0.80	23	8	...
Water Valley ...	4.13	1.39	24	10	7.93
Albany, Ry. Station ..	5.90	2.13	12	8	...
Platfield ...	2.64	1.13	22	10	...
Richmond, St. Mary ..	2.20	0.94	22	6	9.83
Hampstead, St. Mary ...	3.72	1.13	28	8	...
Troja ...	1.90	1.02	2	4	...
Lucky Hill ...	3.93	1.25	13	5	...
Rio Hoe ...	2.88	1.06	25	10	9.64
Unity Valley ...	2.90	0.67	25	12	9.50
Moneague ...	4.25	1.10	10	12	9.94
Claremont ...	3.87	1.30	17	10	8.41
Albion, St. Ann ...	5.69	1.50	10	13	9.02
Averham Park ...	4.66	2.32	12	11	9.35
Means ...	5.62	...	..	...	...

NORTHERN DIVISION.	OCTOBER, 1914. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	3.12	0.62	28	14	8.86
Ocho Rios ...	2.25	0.70	16	5	4.84
Bogue, Ocho Rios ...	1.26	0.78	17	4	...
Drax Hall ...	3.08	1.05	19	8	7.58
Liberty Hill ...	2.26	0.70	29	8	...
St. Ann's Bay ...	...	...	..	...	..
Seville ...	3.54	1.10	11	10	7.09
Richmond Estate ...	2.12	1.33	11	8	7.56
Llandovery ...	2.27	0.92	19	5	7.48
Runaway Bay ...	2.45	0.65	24	7	...
Brown's Town ...	4.30	2.25	17	6	8.98
Alexandria ...	5.60	2.10	21	7	...
Chewmagna, St. Ann ...	8.97	2.00	21	14	8.35
Home Castle ...	3.42	1.10	17	7	7.14
Richmond Pen ...	9.95	1.75	22	10	7.78
Mahogany Hall ...	1.45	0.29	26	10	8.56
Barnstaple ...	1.75	0.70	25	6	...
Brampton Bryan ...	1.88	0.45	25	25	5.22
Bryan Castle ...	2.78	0.70	25	7	5.81
Braco ...	4.00	1.50	8	6	5.42
Arcadia ...	3.79	1.31	25	9	6.24
Lancaster ...	3.06	1.48	8	6	5.96
Harmony Hall ...	2.56	1.14	25	6	5.42
Vale Royal ...	3.92	2.02	25	7	6.69
Colchis Pen ...	3.18	0.68	12	10	...
Swanswick ...	3.89	1.75	25	8	...
Georgia ...	...	...	...	...	...
Long Pond ...	..	...	...	...	...
Hyde Hall ...	...	...	...	...	..
Steelfield ...	..	...	...	...	...
Etingdon ...	2.40	1.20	25	6	2.35
Lottery ...	4.55	1.00	25	11	6.34
Falmouth ...	4.05	1.18	3	12	5.77
Florence Hall ...	6.90	3.00	3	10	...
Good Hope ...	...	...	...	...	...
Unity ...	10.05	1.76	6	15	..
Kent ...	...	...	...	...	...
Gales Valley ...	...	...	...	...	...
Canaan ...	6.81	1.08	6	10	8.24
Content ...	...	...	...	...	...
Bellfield ...	4.17	1.10	7	13	...
Guilsbro ...	8.21	1.65	6	17	7.30
Moor Park ...	5.25	1.10	5	12	7.87
Rose Hall ...	...	...	...	...	...
Montego Bay ...	8.03	2.38	3	10	7.97
Catherine Hall ...	8.20	2.57	3	15	8.64
Retirement ...	7.14	1.38	3	14	...
King Gate ...	15.14	3.67	22	14	9.12
Round Hill ...	3.75	1.00	...	6	6.14
Blue Hole ...	9.63	3.95	3	8	...
Haughton Court ...	...	...	...	...	...
Lucea ...	5.36	1.42	3	6	8.52
Green Island, Police St. ...	...	...	..	...	...
CENTRAL SUB-DIVISION.					
Rio Magno ...	...	...	..	...	...
Headworks, Rio Cobre ...	4.64	1.87	18	12	9.79
Linstead ...	4.25	0.95	9	13	10.32
Berkshire Hall ...	3.12	0.55	25	16	6.49
Point Hill ...	13.04	2.70	31	17	16.83
Marlie Hill ..	6.86	2.87	24	8	..
Worthy Park ...	5.12	1.23	31	11	10.41
Croft Hill ...	7.22	2.06	18	13	...
Chapelton ...	12.37	1.90	29	19	11.81
Danks Works ...	10.74	1.50	12	17	12.41
Savoy House ...	10.70	2.04	30	16	9.96
Crooked River ...	6.50	1.50	25	14	...
Trout Hall ...	8.88	2.60	31	15	..
Cave Valley ...	...	...	...	...	...
Greenock ...	...	..	...	...	...
Means ...	5.44	...	...	...	...

West-Central Division.	October, 1914. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Whitney ...	12.90	3.50	20	14	16.31
Mocho, Clarendon ...	8.95	1.00	11	15	...
Baillieston ...	8.05	1.97	11	4	10.70
Brokenhurst ...	7.25	1.55	23	14	14.94
Christiana ...	7.83	1.52	14	19	12.84
Chudleigh ...	12.24	1.91	21	23	...
Shooter's Hill ...	7.35	2.00	31	20	...
Spitzbergen ...	11.10	2.15	29	23	...
Kendal, Manchester ...	7.66	2.11	31	12	14.96
Marshalls Pen ...	6.54	1.41	31	14	12.81
Mandeville ...	6.62	2.03	31	16	16.56
Carlton, Mandeville ...	7.36	1.55	31	16	12.64
The Hill ...	3.86	0.91	18	15	...
Fairfield, Manchester ...	7.52	1.80	13	22	10.60
Ulster Spring ...	9.82	1.97	21	14	10.19
Freeman's Hall ...	8.45	2.60	10	10	..
Albert Town ...	10.70	1.90	20	15	...
Lowe River ...	10.22	2.50	31	15	12.46
Troy ...	11.30	2.00	21	13	16.50
Windsor Pen, Trel. ...	8.89	1.94	10	19	9.49
Medina ..	13.44	3.40	20	13	...
Wallingford ...	12.17	3.11	20	16	...
Balaclava Police Station ...	11.44	2.27	20	16	13.38
Siloah ...	12.36	0.95	17	19	...
Appleton Estate ...	11.88	2.73	12	19	14.04
Maggotty ...	11.41	1.86	18	16	15.30
Butlers ..	16.31	2.37	17	18	...
Dromilly Pen ...	...	...	...	...	...
Spring Vale ...	8.02	1.30	20	13	10.42
Garland ...	...	...	...	...	...
Mocho, Catadupa ...	9.85	2.40	17	24	...
Springfield, St. Elizabeth	14.14	4.01	24	19	...
Chesterfield, St. James ...	...	...	...	...	...
Catadupa Rly. Station ...	...	...	..	...	...
Kempshot ...	6.09	1.18	18	10	9.60
Cambridge, St. James ...	5.12	0.82	10	17	...
Ducketts ...	...	...	...	...	...
New Market, Police St. ...	12.07	2.22	22	10	...
The Bog, New Market ...	14.26	1.53	12	20	...
Kew Park ...	12.05	2.36	18	18	11.68
Knockalva ..	16.87	2.35	17	20	..
Ramble ...	16.31	2.50	21	19	...
Petersville ...	10.49	2.72	12	13	11.33
Darliston ...	17.34	2.85	19	21	15.71
Bluefields ...	10.82	2.84	18	18	12.34
Whithorn ...	12.15	1.76	13	18	11.93
Water Works Pen ...	9.94	1.75	17	17	...
Great Valley, Han. ...	9.08	2.78	18	9	12.17
Prospect Park ...	..	...	..	...	...
Blackheath ...	5.02	2.10	10	10	...
Fontabelle, Westm. ...	9.09	3.15	17	11	10.44
Belleisle ...	10.39	2.60	18	12	9.53
Morgan's Bridge ...	8 99	2.60	18	9	12.94
King's Vale Police St. ...	2.85	1.06	18	7	10.25
Means ...	9.43	...	...	...	...

Southern Division.	October, 1914. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	2.76	0.98	21	12	11.71
Elliott Hill ...	3.85	1.29	23	17	...
Pleasant Hill ...	4.41	1.62	22	16	...
East Prospect ...	6.99	1.78	22	13	...
Morant Bay ...	5.73	1.57	12	12	14.22
Easington ...	2.51	1.35	24	8	14.22
Bull Bay ...	0.50	0.30	28	2	10.26
Bellevue ...	...	...	...	...	..
Gordon Town ...	13 09	2.70	12	...	14.15
Hope Gardens ...	6.55	...	...	...	...
King's House Gardens ...	3.84	...	...	...	...
Halfway Tree ...	2.10	1.60	12	2	9.90
Lunatic Asylum ...	1.05	0.92	12	3	7.93
Parade Gardens ...	...	..	...	...	...
Upper Elletson Road ...	1.51	1.00	12	6	...
Kingston P. W. Office ...	1.58	1.07	12	5	8.15
Plumb Point L. H. ...	0.67	0.21	25	6	7.67
Clifton Pen ...	1.13	0.87	12	2	...
Quarantine Station ...	1.85	1.00	25	4	..
Spanish Town ...	0.99	0.40	25	6	9.59
Hog Hole, St. Catherine...	2.65	1.55	25	9	10.09
Hartlands ...	1.34	0.80	25	3	7.78
Belmont, Guanaboa Vale	8.00	2.25	31	14	...
Old Harbour ...	3.08	1.91	25	4	11.07
May Pen ...	4.11	1.35	25	11	11.57
Dunkley's, Vere ...	7.22	3.61	25	6	7.01
*Dry River " ...	6.33	3.12	25	7	...
Denbigh ...	3.10	1.20	26	3	10.11
Toll Gate ...	4.53	2.30	31	8	...
Woodleigh ...	3.80	1.15	26	3	...
New Yarmouth ...	6.48	3.81	25	4	9.30
Exeter, Vere ...	..	...	...	...	...
Rhynesbury ...	3.69	2.09	24	11	8.49
Milk River ...	2.00	0.60	24	4	7.56
Clarendon Pk. Ry. St. ...	7.71	3.90	31	13	...
Victoria Town ...	5.35	2.60	31	5	11.55
Hog Hole, S. Manch. ...	5.08	1.62	25	8	..
Stone's Hope ...	5.86	1.23	25	9	13.35
Newport, Manchester ...	4.73	0.91	8	17	13.26
Great Valley, Man. ...	3.16	1.12	25	5	11.37
Alligator Pond ...	2.20	1.92	25	2	8.77
Southfield, St. Elizabeth ...	2.25	1.68	25	7	...
Lititz ...	3.22	0.92	13	12	...
Long Hill ...	17.27	2.94	16	18	...
Torrington ...	3.66	1.05	25	6	11.26
Bethlehem, St. Eliz. ...	8.96	1.90	31	15	11.86
Santa Cruz ...	12.29	2.04	20	17	12.01
Pedro Plains Police St. ...	1.19	0.40	25	8	6.60
Black River ...	7.46	1.46	12	14	8.74
Font Hill ...	6.55	2.55	11	9	9.95
Mount Edgecombe ...	9.69	1.93	14	19	10.05
Sweet River ...	9.20	2.00	19	17	10.06
Windsor, Sav.-la-mar ...	6.73	3.91	18	14	8.40
Orchard ...	6.33	1.35	17	16	...
Sav.-la-mar ...	7.10	2.43	17	12	8.99
Meyersfield ...	9.07	2.45	19	10	..
Retreat ...	10.24	1.92	10	16	10.96
White Hall ...	5.83	1.91	10	10	...
Negril Point L.H. ...	5.29	1.66	10	12	8.37
Means ...	4.84	...	...	...	...

*On the 26th 2.84 fell, making 5.96 for the two days.

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

	October.	
	1914.	Average.
	In.	In.
North-Eastern Division ...	5.62	13.22
Northern „ ...	5.44	7.46
West-Central „ ...	9.43	12.02
Southern „ ...	4.34	10.28
The Island ...	6.33	10.74

The heaviest rainfall of over 17 inches was recorded at Darliston and at Long Hill; and the lowest, 0.50, was recorded at Bull Bay Police Station.

Shocks of Earthquake in October, 1914.

Date.	Standard Time (Approx.)	Intensity.	Notes: where felt, etc.
	hr. min.		
14	2 18 a.m.	IV. or V	Whole Island: Blue Mts., Kingston, and eastern part chiefly. (See below.)
			After Shocks,
14	3 5 "	I.	Kingston.
"	3 26 "	I.	Mt. Holstein and Farm Hill.
"	3 32 "	I.	Kingston and Buff Bay.
"	3 37 "	I.	Mt. Holstein.
"	...	..	A dozen more at Mt. Holstein during the day.
15	...	..	Several at Mt. Holstein during the day.
"	9 3 p.m.	I.	Mt. Holstein.
"	10 0 "	I.	Moy Hall.
"	11 48 "	II.	Mr. Holstein, NW & SE., 0.010.
16	...	...	About 6 shocks at Mt. Holstein during night, 15th and 16th.
"	11 48 "	I.	Mt. Holstein.
17	9 0 a.m.	I.	Dallas Castle.
"	10 30 "	I.	Mt. Holstein, NE & SW, 0.006.
"	11 0 "	II.	Moy Hall, N & S.
"	9 0 "	I.	Dallas Castle.
"	1 50 p.m,	I.	Mt. Holstein, NW & SE, 0.005 NE & SW, 0.004.
18	1 30 a.m.	I.	Mt. Holstein.
"	8 0 "	I.	Do.
"	2 0 p.m.	I.	Dallas Castle.
20	2 30 "	I.	Mt Holstein and Weather Office, Halfway Tree.
"	10 0 "	I.	Unity Valley.
21	2 30 a.m.	II.	Mt. Holstein, NW & SE, 0.011
25	10 0 p.m.	...	Plumb Pt. NNW & SSE; 7 sec.
29	7 30 "	I.	Moy Hall, N & S.

Plumb Point Light House—

Average No. of Miles of wind per diem	119
Greatest on the 1st	228
Least on the 17th	68

THE EARTHQUAKES OF OCTOBER 14th, 1914, 2 hrs. 17 min. to 2 hrs. 18 min. a.m. (Standard Time.)

Place.	Parish.	Reported times.	Intensity.	Direction of Shocks.	Motion of ground.	Duration.	Notes.
					in.	sec.	
Mt. Holstein ..	Portland	2 hrs. & 30 min.	IV	N & S E & W	0.2	10	Double shock. About 35 after shocks.
Moy Hall ..	St. Thomas	30 "	IV	N & S	..	9	Double shock.
Kingston ..	..	18 "	IV	WNW & ESE	0.3	10	Very loud sounds.
Plumb Point ..	..	20 "	IV	NW & SE.	..	16	
Buff Bay ..	Portland	17 "	III	..	..	10	
Unity Valley ..	St. Ann	15 "	III	..	..	..	Short, sharp shocks, starting with a violent jerk.
Savoy ..	Clarendon	15 "	III	E & W	..	3	Sounds preceded vibrations and upheaval.
Race Course ..	do	15 "	..	..	..	..	
Windsor Pen ..	Trelawny	..	II	..	..	10	Tremors, no undulation.
Mt. Edgecombe ..	Westmoreland	15 "	II	..	..	..	A series of upheavals.
Kempshot ..	St. James	18 "	II	..	..	5	
Petersfield ..	Westmoreland	20 "	III	NW & SE.	..	..	Long continued tremors and upheaval.
Great Valley ..	Hanover	10 "	III	N & S	..	..	Long continued tremors, changing into rocking motion N & S.
Lucea ..	do	20 "	..	E & W	..	30	
Negril Pt. ..	Westmoreland	20 "	..	N & S	..	30	

The meteorological conditions on Oct. 14th. were much as usual, high temperatures having prevailed all through the summer.

From the tracing of an aneroid barometer in Kingston, we find that the small fall so often noticed at the time of a well marked shock, occurred 16 hours after the shock on Oct. 14th:—

	Corr. D.V.
	in.
24 hours before shock	30.03
16 do	30.03
8 do	30.02
At time of shock	30.04
8 hours after shock	30.00
16 do	26.96
24 do	30.02
With regard to the Wind:—	
Day before the shock	147 miles
Day of the shock	187 miles
Day after the shock	201 miles

The wind blew from NW from 3.30 p.m. on the 13th to 2.15 a.m. on the 14th. It then blew from N until 8.15 a.m. on the 14th when it backed to NW again.

There was therefore the same small drop in the barometric pressure 16 hours after the shock as occurred on August 3rd this year; but there was not the usual diminution of the wind.

NOTES ON THE EARTHQUAKE, OCTOBER 14TH.

In many respects these shocks closely resemble those of August 3rd this year; but with the exception of B they came from different epicentres. The following are the times when shocks from the epicentres were due.

B	Oct. 13.3
H	" 13.5
Me	" 13.6

so that they were all due within a few hours of each other; they took effect simultaneously and affected other centres, or rather another centre, at the west end of the Island.

The epicentre Me is at Guy's Hill, a well marked mountain centre, where the three parishes of St. Mary, St. Ann and St. Catherine meet.

Now at Kingston both H and Me would give the WNW and ESE tracings recorded by the seismometer ; and B would give NW and SE tracings, of which there are several on the rather tangled record.

At the Plumb Point Light House the same epicentres produced nearly the same effect.

At Mount Holstein B (and H) would give NNW and SSE shocks, while Me would give NE and SW shocks. The tracings of the seismometer there bear some resemblance to an irregular *W*, these directions being mixed with some permanent movement of the plate (?) east and west.

At Moy Hall the principal shock was from H, NNW and SSE; the other from B (and Me) would have been E and W nearly.

Savoy also seems to have felt the shock from H chiefly, which was E and W.

At Petersfield, Great Valley, Lucea and Negril Point Light House, the reported directions of the shocks all agree in placing the epicentre at C, although that epicentre was not then due; and we will have to wait some time before we can say whether its period, or its epoch, or both, have changed.

There can be no doubt as to the long continuation of the shock at the west end of the Island, due to C having joined its effects to those from the east end; for although only 5 seconds were estimated at Kempshot, yet that place is built on solid rock; and if any shocks are ever felt there, they last only a few seconds.

The shock occurred at Kempshot at 2 hours 18 minutes 24 seconds, within a few seconds. At the other end of the Island the time was between 2 hours 17 minutes and 2 hours 18 minutes. Consequently the disturbance took one minute to travel the distance of about 77 miles, exactly as it did on August 3rd this year. This velocity of 1.3 miles per second agrees very well with the estimate of 1.5 miles per second for the great earthquake of January 14th 1907 (W. R. No. 337, p. 8).

Maxwell Hall,
Government Meteorologist.

The Weather Office,
Halfway Tree P.O.

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No. 436.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

NOVEMBER, 1914.

The Bar. pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.919	29.864	79.3	82.0	84.2	73.9	10.3	87.0	8	68.0	20	19.0
Kingston ..	24	29.892	29.847	73.7	83.7	88.2	72.2	16.0	92.0	1	69.8	28	22.2
Negril Point Light House ..	33	29.906	29.857	76.2	82.9	85.5	71.7	13 8	88.5	12	67.6	28	20.9
Castleton Gardens ..	496	..	..	69.4	81.4	85.6	63.4	22.2	92	5*	59	3*	33
Hope Gardens† ..	668	29.909	29.822	71.8	82.7	86.4	69.2	17.2	91	24	66	26	25
Stony Hill Indus. School ..	1,400	..	..	69.7	79.1	81.2	68.0	13.2	85	2*	66	2	19
Hill Gardens ..	4,900	25.039	25.200	62.6	64.3	67.9	56.7	11.2	72	14	54	27*	18

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction from and miles per hour.				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	74.9	87	75.8	81	17.13	274	N.E. by N.	16	N.N.E	14	3.9	1.0	1.0	3.8	2.0	1.0
Kingston ..	24	69.4	86	74.8	75	1.56	128	N.N.E	4.6	S.E.	7.7	2.2	1.3	0.7	3.7	2.2	1.3
Negril Point Light House‡ ..	33	70.5	82	72.4	71	4.60	210	E.	6.9	N. E. by N.	10.3	1.5	1.0	2.1	2.3	3.5	0.9
Castleton Gardens ..	496	66.9	93	73.0	76	22.29	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	66.7	84	71.3	67	6.99	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	66.9	90	71.4	77	17.39	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	58.3	83	61.5	93	19.79	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m. N.E. 9.6

THE RAINFALL.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	NOVEMBER, 1914. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	25.04	5.30	13	16	14.23
Ecclesdown ...	51.24	6.10	14	23	..
Spring Valley, Portland ...	36.05	5.46	13	21	.
Bath ..	20.77	3.10	13	22	12.95
Boston ...	13.30	2.50	12	11	13.51
Moore Town ...	30.40	...	...	..	34.15
Port Antonio ...	23.47	5.54	12	21	16.39
Fellowship ...	22.98	4.70	12	23	27.19
Windsor, Portland ...	...	...	...	..	...
Johnson River Bridge ...	9.24	3.54	10	18	6.70
Shrewsbury ...	36.76	10.45	12	14	21.32
Cedar Valley, St. Thos. ...	12.77	3.75	21	18	13.09
Hope Bay ...	31.50	11.05	12	21	...
Moy Hall, St. Thos. ...	15.81	4.12	23	19	13.14
Lennox ...	37.75	11.75	12	18	...
Farm Hill ...	24.51	9.38	21	15	...
Hill Gardens ...	19.79	...	...	...	.
Buff Bay ...	28.94	8.45	12	16	16.12
Vinery ...	21.73	4.14	11	17	..
Windsor Castle, Port. ...	19.18	5.30	12	14	...
Greenvale, Portland ...	31.34	8.65	22	19	...
Mt. Holstein ...	32.77	16.74	21	23	26.11
Irish Town ..	10.11	4:31	21	10	12.01
Rose Hill ...	20.54	6.00	21	15	...
Hardware Gap ...	17.34	..	...	...	13.02
Stony Hill Ind. School ...	17.59	5.95	21	17	7.14
Castleton Gardens ...	22.29	...	...	...	
Lawrence Tavern ...	17.68	6.56	21	12	8.33
Cedar Valley, Red Hills ...	15.12	6.00	21	13	...
Carew Castle ...	9.96	5.15	21	10	9.36
Agualta Vale ...	17.97	3.48	12	17	...
Water Valley ...	16.70	4.00	12	17	10.01
Albany, Ry. Station ..	18.70	3.50	12	19	...
Platfield ...	14.86	3.48	21	18	...
Richmond, St. Mary ..	17.08	5:35	21	16	11.65
Hampstead, St. Mary ...	18.20	3.18	11	20	...
Troja ...	...	...	...	...	...
Lucky Hill ...	12.77	2.21	12	16	...
Rio Hoe ...	8.37	1.46	21	20	9.40
Unity Valley ...	8.30	2.53	21	23	9.01
Moneague ...	7.44	3.20	21	16	9.90
Claremont ...	8.92	2.63	21	13	10.46
Albion, St. Ann ...	8.72	1.74	21	19	9.74
Averham Park ...	19.83	5.35	20	16	11.85
Means ...	16.90	...	..	...	...

NORTHERN DIVISION.	NOVEMBER, 1914. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	12.17	3.56	22	19	10.69
Ocho Rios ...	10.78	1.70	23	10	7.73
Bogue, Ocho Rios ...	13.49	3.78	21	17	...
Drax Hall ...	8.70	2.50	23	16	10.04
Liberty Hill ...	10.57	3.50	20	12	...
St. Ann's Bay ...	9.73	3.03	20	21	9.00
Seville ...	12.08	2.95	23	17	9.80
Richmond Estate ...	10.36	2.75	23	18	9.42
Llandovery ...	9.46	3.04	23	11	9.16
Runaway Bay ...	5.50	1.40	17	7	...
Brown's Town ...	9.95	3.28	20	10	10.58
Alexandria ...	5.15	3.10	21	5	...
Chewmagna, St. Ann ...	5.73	1.85	21	11	7.69
Home Castle ...	10.80	3.10	22	8	7.35
Richmond Pen ...	6.30	1.90	20	10	5.99
Mahogany Hall ...	8.46	2.07	21	12	7.14
Barnstaple ...	7.98	1.86	22	10	...
Brampton Bryan ...	8.44	2.37	22	19	5.72
Bryan Castle ...	9.05	2.10	20	13	6.40
Braco ...	9.80	4.25	20	15	5.88
Arcadia ...	9.59	2.88	20	13	6.47
Lancaster ...	11.04	3.50	20	12	6.34
Harmony Hall ...	9.18	2.80	20	16	5.75
Vale Royal ...	10.13	3.30	20	13	7.30
Colchis Pen ...	4.33	0.87	21	10	5.81
Swanswick ...	8.20	2.50	20	13	...
Georgia ...	9.55	3.10	20	13	5.84
Long Pond ...	..	...	...	...	...
Hyde Hall ...	9.49	3.01	20	11	5.14
Steelfield ...	..	...	...	...	...
Etingdon ...	8.50	2.30	21	10	5.37
Lottery ...	7.30	2.20	20	13	5.38
Falmouth ...	4.97	1.71	20	12	4.92
Florence Hall ...	5.63	3.00	20	10	...
Good Hope ...	...	...	...	...	...
Unity ...	9.76	3.36	20	12	..
Kent ...	7.90	2.70	20	11	4.91
Gales Valley ...	...	...	...	...	...
Canaan ...	9.02	3.32	20	18	5.03
Content ...	...	...	...	...	...
Bellfield ...	6.48	1.60	23	11	...
Guilsbro ...	10.45	2.50	23	22	5.78
Moor Park ...	9.27	2.50	20	16	7.90
Rose Hall ...	...	...	...	...	...
Montego Bay ...	5.24	3.20	21	8	4.30
Catherine Hall ...	6.53	3.35	2	11	4.58
Retirement ...	8.83	2.60	20	19	...
King Gate ...	9.73	4.39	21	9	3.86
Round Hill ...	...	.	...	...	...
Blue Hole ...	13.69	4.15	20	9	...
Haughton Court ...	7.56	2.04	12	13	...
Lucea ...	7.65	1.51	21	8	5.71
Green Island, Police St. ...	7.96	2.55	13	10	...
CENTRAL SUB-DIVISION.					
Rio Magno ...	...	...	..	...	...
Headworks, Rio Cobre ...	8.01	2.05	10	12	4.74
Linstead ...	...	...	..	...	...
Berkshire Hall ...	9.16	2.66	21	12	8.04
Point Hill ...	9.15	2.06	9	15	10.16
Marlie Hill ..	9.40	3.30	5	8	..
Worthy Park ...	10.42	2.52	10	11	4.18
Croft Hill ...	7.03	1.73	12	12	...
Chapelton ...	5.67	1.55	11	15	4.49
Danks Works ...	6.85	1.86	11	10	4.99
Savoy House ...	6.43	1.70	11	13	5.62
Crooked River ...	3.09	2.14	11	3	...
Trout Hall ...	6.90	2.29	4	15	..
Cave Valley ...	7.73	2.00	21	15	4.75
Greenock ...	...	..	...	...	...
Means ...	8.67	...	...	...	...

WEST-CENTRAL DIVISION.	NOVEMBER, 1914. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Whitney ...	6.60	1.00	7	16	7.91
Mocho, Clarendon ...	5.50	1.20	10	9	...
Baillieston ...	7.61	1.63	9	3	5.25
Brokenhurst ...	9.95	2.70	7	12	6.21
Christiana ...	7.13	1.27	28	21	6.82
Chudleigh ...	9.79	2.21	10	20	...
Shooter's Hill ...	6.96	2.17	16	18	...
Spitzbergen ...	6.22	1.20	13	19	...
Kendal, Manchester ...	8.05	2.50	3	13	5.99
Marshalls Pen ...	9.32	1.80	7	16	6.10
Mandeville ...	9.37	2.05	7	14	6.29
Carlton, Mandeville ...	8.29	1.79	7	13	6.41
The Hill ...	6.79	2.44	10	13	...
Fairfield, Manchester ...	5.54	2.33	10	17	6.46
Ulster Spring ...	8.05	1.90	21	13	6.49
Freeman's Hall ...	4.80	1.55	6	9	...
Albert Town ...	4.70	1.05	6	14	...
Lowe River ...	12.96	3.95	3	16	9.12
Troy ...	8.41	1.50	5	12	6.46
Windsor Pen, Trel. ...	7.41	2.54	20	15	6.03
Medina ...	5.04	0.73	3	15	...
Wallingford ...	6.70	1.54	1	18	...
Balaclava Police Station ...	7.30	1.55	1	16	5.91
Siloah ...	9.25	1.85	1	13	...
Appleton Estate ...	7.55	3.36	6	14	6.04
Maggotty ...	5.74	2.45	5	13	6.80
Butlers ..	6.42	1.56	6	16	...
Dromilly Pen ...	10.04	3.60	20	12	...
Spring Vale ...	9.28	3.80	21	12	...
Garland ...	...	...	...	...	...
Mocho, Catadupa ...	8.22	2.52	19	21	...
Springfield, St. Elizabeth	5.33	0.90	13	12	3.31
Chesterfield, St. James ...	5.54	0.87	29	14	...
Catadupa Rly. Station ...	8.75	3.00	6	15	...
Kempshot ...	7.95	2.66	20	19	6.18
Cambridge, St. James ...	10.41	3.28	6	13	...
Ducketts ...	8.35	2.30	22	9	...
New Market, Police St. ...	7.19	1.88	17	9	...
The Bog, New Market ...	9.76	1.44	7	14	...
Kew Park ...	6.34	1.59	20	14	5.52
Knockalva ...	7.50	1.69	20	13	...
Ramble ...	9.19	1.95	21	14	...
Petersville ...	.54	1.30	7	10	6.49
Darliston ...	6.71	1.65	13	16	7.48
Bluefields ...	6.47	1.26	9	9	8.63
Whithorn ...	6.62	1.45	20	15	6.92
Water Works Pen ...	5.90	1.35	20	14	...
*Great Valley, Han. ...	14.75	4.20	25	11	5.81
Prospect Park ...	...	...	...	...	...
Blackheath ...	5.71	2.15	21	9	...
Fontabelle, Westm. ...	4.73	1.90	20	11	3.02
Belleisle ...	...	...	...	...	...
Morgan's Bridge ...	...	...	...	...	...
King's Vale Police St. ...	9.39	2.12	13	12	5.46
Means ...	7.82	...	...	...	...

SOUTHERN DIVISION.	NOVEMBER, 1914. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	17.13	12.00	13	19	6.90
Elliott Hill ...	19.83	6.56	14	24	...
Pleasant Hill ...	18.82	5.57	13	25	...
East Prospect ...	9.89	4.00	13	17	...
Morant Bay ...	5.44	1.75	13	20	6.44
Easington ...	2.84	0.80	13	10	5.35
Bull Bay ...	2.24	1.00	22	3	3.71
Bellevue ...	...	...	...	...	..
Gordon Town ...	9.12	4.00	20	10	9.57
Hope Gardens ...	6.99	...	...	...	...
King's House Gardens ...	4.64	...	...	...	...
Halfway Tree ...	4.77	1.66	21	7	3.66
Lunatic Asylum ...	2.08	0.81	21	6	3.57
Parade Gardens ...	...	..	...	...	...
Upper Elletson Road ...	2.22	0.92	21	8	...
Kingston P. W. Office ...	1.56	0.63	21	8	3.00
Plumb Point L. H. ...	1.42	0.70	70	7	2.32
Clifton Pen ...	3.14	1.15	10	5	...
Quarantine Station ...	2.94	2.08	9	4	..
Spanish Town ...	8.46	4.00	10	9	3.56
Hog Hole, St. Catherine...	10.12	3.20	21	13	...
Hartlands ...	6.66	1.60	3	9	6.06
Belmont, Guanaboa Vale	8.16	2.55	10	12	...
Old Harbour ...	5.16	1.98	10	15	3.60
May Pen ...	4.92	1.40	3	11	4.51
Hillside ...	8.60	2.35	7	8	3.14
Moreland ...	6.96	2.28	7	10	6.70
Dunkley's, Vere ...	8.03	1.80	1	11	3.92
Dry River " ...	8.91	2.04	1	10	...
Denbigh ...	5.00	0.90	1	7	4.79
Toll Gate ...	7.50	2.12	20	12	...
Woodleigh ...	6.10	2.10	1	7	...
New Yarmouth ...	8.48	2.21	1	9	2.60
Exeter, Vere ...	...	...	...	...	...
Rhymesbury ...	5.88	1.09	2	13	3.58
Milk River ...	4.00	2.10	8	5	4.26
Clarendon Pk. Ry. St. ...	6.57	2.00	20	13	..
Victoria Town ...	7.09	2.25	1	9	4.53
Hog Hole, S. Manch. ...	5.97	1.66	7	8	...
Stone's Hope ...	7.41	1.69	10	9	5.01
Newport, Manchester ...	6.29	1.87	10	13	6.29
Great Valley, Man. ...	7.36	1.58	7	11	4.24
Alligator Pond ...	6.09	2.48	18	8	2.97
Southfield, St. Elizabeth ...	7.10	2.23	18	14	...
Lititz ...	...	...	...	...	...
Long Hill ...	...	...	...	...	...
Torrington ...	2.87	0.90	10	7	6.99
Bethlehem, St. Eliz. ...	5.49	1.60	10	13	7.32
Santa Cruz ...	7.63	1.29	18	12	5.89
Pedro Plains Police St. ...	3.24	0.70	12	11	4.01
Black River ...	3.04	0.76	6	12	4.53
Font Hill ...	4.40	1.60	6	10	5.32
Mount Edgecombe ...	4.49	0.87	12	15	5.00
Sweet River ...	6.75	1.20	8	13	3.80
Windsor, Sav.-la-mar ...	3.49	0.85	20	12	3.64
Orchard ...	4.16	0.81	20	14	..
Sav.-la-mar ...	4.21	0.96	20	12	3.10
Meylersfield ...	3.34	1.06	20	7	...
Retreat ...	2.83	0.70	12	10	4.79
White Hall ...	...	...	...	...	...
Negril Point L.H. ...	4.60	1.36	13	12	3.21
Means ...	5.59	...	...	...	...

*Gauge overflowed on 25th.

NOTES.

COMPARATIVE TABLE OF RAINFALL.

(Based upon the "Average" Stations only.)

—	NOVEMBER.	
	1914.	Average.
	In.	In.
North-Eastern Division ...	16.90	13.54
Northern „ ...	8.67	5.91
West-Central „ ...	7.82	5.74
Southern „ ...	5.59	4.56
The Island ...	9.74	7.44

The heaviest rainfall of 51.24 inches was recorded at Ecclesdown on the hills 3 or 4 miles west of Manchioneal, but the details have not reached the Weather Office. The lowest rainfall, 1.42, was recorded at Plumb Pt. Light House.

It is requested that for the future all communications to the Weather Office, be addressed to Montego Bay P.O.

SHOCKS OF EARTHQUAKE IN NOVEMBER, 1914.

Date.	Standard Time (Approx.)	Intensity.	Notes: where felt, etc.
	hr. min.		
15	12 47 a.m.	II.	Kingston; N & S 0.040: 5 secs.
		II.	Plumb Pt. Lighthouse, S. E. 8 secs.
		II.	Halfway Tree; NNE, & SSW. 0.035.
		II.	Mt. Holstein; prolonged tremors.
		III.	Moy Hall; N & S.; loud sound 2 min. before shock.
		II.	Unity Valley; 2 slight tremors.
"	8 42 "	I.	Kingston; N & S. 0.002
		I.	Halfway Tree, Dallas Castle and Mt. Holstein.
	5 30 p.m,	I.	Moy Hall.

PLUMB POINT LIGHT HOUSE—

Average No. of Miles of wind per diem	125
Greatest on the 14th	280
Least on the 26th	61

MAXWELL HALL,
Government Meteorologist.

Halfway Tree.

THE EARTHQUAKE CHARTS.

The charts accompanying this Report are intended to illustrate the earthquake phenomena detailed in the Weather Reports for August and October this year.

The first gives the positions of the epicentres as known in recent years, and it will be seen that with the exception of A and H that they are distributed along the central line of the Island, and that there are as many as four of them near one another among the Blue and Port Royal Mountains. The positions of A and H at sea are of course not as well known as most of the others. A is perhaps the most interesting ; it has the longest " period," namely thirty and a half days, the intervals between the shocks have been as long as seven years since 1886, and when the shcoks do occur they are never more than a day or two before or after their computed times. Moreover, this remarkable regularity enables us to connect the modern shocks with the great earthquake near Annotto Bay in 1812.

But most of the other epicentres also have their peculiarities which renders their study interesting.

The second chart illustrates the earthquake of August 3rd this year: the lines with the double arrow heads indicate the to and fro directions of the shocks at different places: the Roman numerals III, IV, and V, indicate the intensity of the shocks according to the Jamaica scale ; and the dotted oval lines, enclosing areas where IV and V were felt, show that the greatest intensity occured near the Blue Mountain Peak.

These directions follow a certain law which was fully explained in the Weather Report for October ; and it will be found that in both this chart, and the third chart which illustrates the earthquake of January 14th, 1907, that they are very few directions which are wrong, or rather in which the impressions of the observers do not agree with the theory in its present imperfect form. For the last chart the reported directions were given seven years ago in WR No. 337.

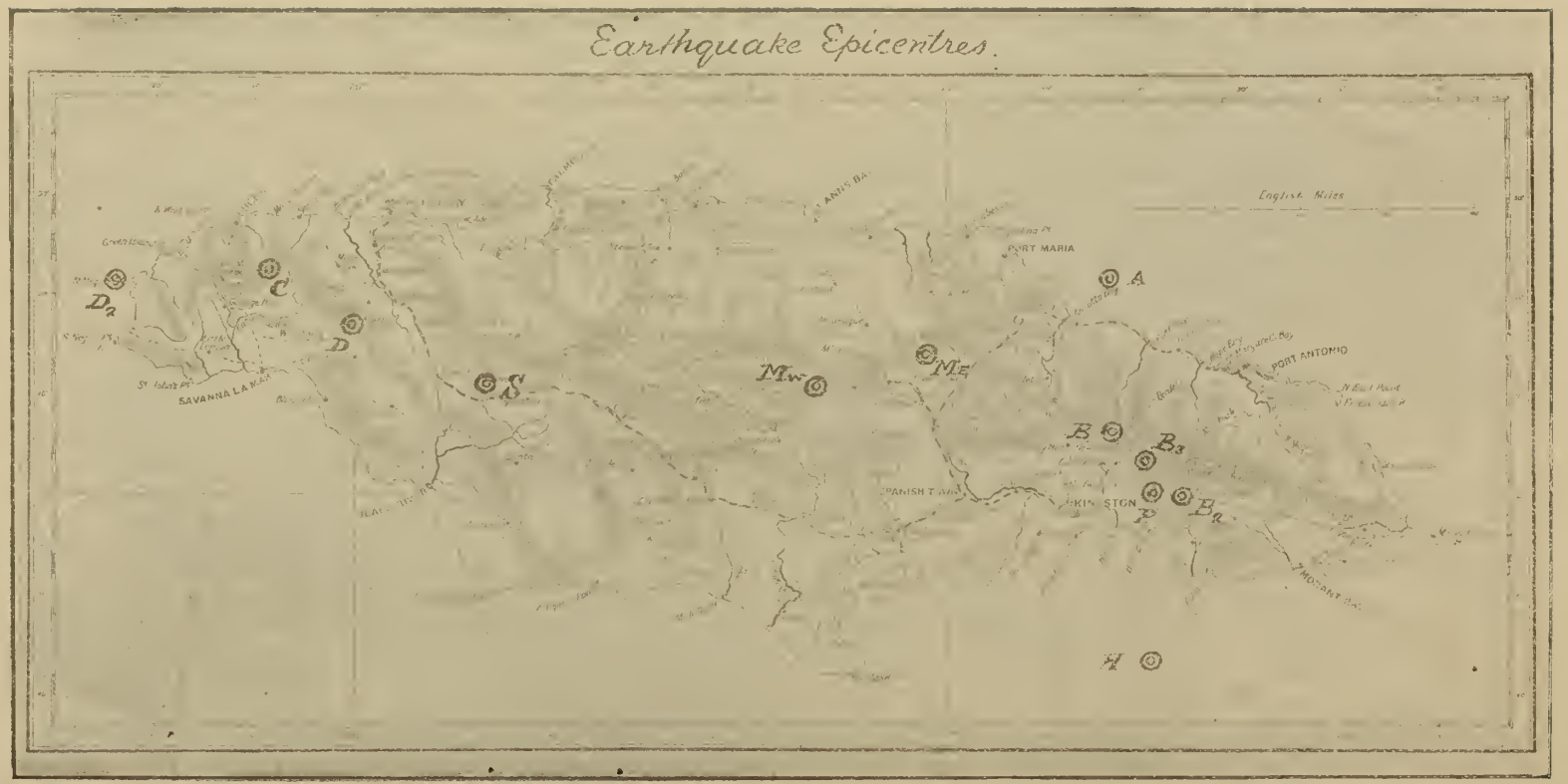
Considerable use may now be made of these charts : for instance, shocks were due as follows :-

1914.	B_2	December	23.5
	B	"	24.0

and when these shocks were felt at Halfway-Tree late at night on December 24th, it was to have been expected that their direction recorded on the seismometer would have been N and S ; but although there was some N and S motion, it was chiefly N W and S E. This required further consideration, and it was found that A was also due December 26.8, and that the N W and S E motion was undoubtedly due to A.

However, as A gives off a shock so seldom, the last previously recorded having occured on January 20th, 1907, a telegram was sent to Annotto Bay early in the morning of December 26th, and the reply confirmed the theory under discussion, as on the night of the 24th " two very heavy shocks" were felt at Annotto Bay, one of which came from A and the other from B and B2 combined.

M. H.
26.12.'14.


Earthquake Epicentres.
English Miles
PORT MARIA
PORT ANTONIO
SAVANNA LA MAR
A
B
B1
B2
C
D
D1
E
Mw
Me
H

Earthquake, 1914 Aug. 3rd. 6hr. 25m. am.
FALMOUTH
MONTEGO BAY
ST ANNS BAY
PORT MARIA
SAVANNA LA MAR
BLACK RIVER
KINGSTON
SPANISH TOWN
PORT ANTONIO
MORANT POINT
MANCHESTER
CLARENDON
COCKPIT COUNTRY
LUCEA
N West Point
Green Island Harbour
S Negril Pt
St Johns Pt
Whitehall
Orchilla
Bluefields
Santa Cruz
Williamsfield
Mocho
Parnassus
Mt Diablo
Guys Hill
Lluidas Vale
Port Royal
Hunts Bay
Kingston Harbour
Harbour View
Yallahs
Bull Bay
Hope Bay
Buff Bay
Port Antonio
N East Point
Priestman's R
Morant Point
Eighth Miles
D2
D
S
M
B
B2
III
IV
V

Earthquake, 1907 Jan. 14 h. 3 hr. 29 m. pm.
LUCEA
MONTEGO BAY
FALMOUTH
ST ANNS BAY
SAVANNA LA MAR
BLACK R.
SPANISH TOWN
PORT ROYAL
KINGSTON
HARBOUR
MORANT BAY
PORT MARIA
I
II
III
IV
V
VI

351.05 Stack
JA

UNIVERSITY OF ILLINOIS
27 1915

No. 437.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

DECEMBER, 1914.

The Bar. pressures at all the Stations except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.958	29.910	80.0	81.7	83.9	75.5	8.4	86.0	8	70.0	31	16.0
Kingston ..	24	29.928	29.870	73.1	81.5	89.1	71.8	17.3	91.9	24	70.2	26	21.7
Negril Point Light House ..	33	29.942	29.891	74.5	84.1	86.1	71.4	14.7	88.8	12	67.6	7	21.2
Castleton Gardens ..	496	..	..	67.4	83.4	86.5	61.6	24.9	91	26	56	3*	35
Hope Gardens† ..	668	29.962	29.864	70.7	83.8	87.8	68.0	19.8	90	11*	66	18	24
Stony Hill Indus. School ..	1,400	..	..	67.8	78.6	81.4	66.4	15.0	84	4*	64	2	20
Hill Gardens ..	4,900	25.288	25.230	62.1	64.3	68.0	56.0	12.0	71	10*	55	16	16

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction from and miles per hour.				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	74.3	82	74.5	79	5.47	310	N.E.	17	E.N.E.	15	3.3	1.3	0.3	3.1	1.1	0.6
Kingston ..	24	67.6	83	71.1	64	0.23	157	N.N.E	5	S.E.	10	1.7	0.5	0.7	1.8	3.3	0.4
Negril Point Light House‡ ..	33	68.3	81	72.1	67	2.95	200	E.	8	E.N.E.	11	1.3	0.6	0.3	0.8	5.1	0.3
Castleton Gardens ..	496	64.5	93	71.4	67	7.13	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	64.4	78	69.9	63	1.80	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	65.7	93	70.9	77	3.93	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	57.5	87	60.9	90	4.21	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.
‡ Negril Point Light House Wind 11 p.m. E.N.E. 8.1.

Plumb Point Light House { Average No. of Miles of wind per diem 246
Greatest on the 31st 590
Least on the 5th 104

THE RAINFALL.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

DECEMBER, 1914.

*NORTH-EASTERN DIVISION.	Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	11.43	3.53	1	13	8.02
Ecclesdown ...	20.77	6.70	8	23	..
Spring Valley, Portland ...	17.10	6.34	8	17	.
Bath ..	11.64	2.24	19	24	8.80
Boston ...	10.40	3.60	8	6	9.92
Moore Town ...	15.13	...	...	...	25.30
Port Antonio ...	12.35	2.00	26	22	...
Fellowship ...	13.80	1.95	2	30	19.92
Windsor, Portland ...	...	...	...	...	...
Johnson River Bridge ...	7.79	1.90	8	18	5.53
Shrewsbury ...	11.66	1.25	1	16	24.66
Cedar Valley, St. Thos. ...	5.40	1.35	29	19	5.52
Hope Bay ...	11.40	1.20	26	26	...
Moy Hall, St. Thos. ...	3.29	1.00	29	10	5.94
Lennox ...	10.55	1.50	23	18	...
Farm Hill ...	6.57	1.80	5		...
Hill Gardens ...	4.21	...	...	...	10.73
Buff Bay ...	8.77	1.16	26	15	11.81
Vinery ...	10.64	2.10	9	16	..
Windsor Castle, Port. ...	16.01	1.76	27	12	...
Greenvale, Portland ...	10.04	1.50	21	21	..
Mt. Holstein ...	5.38	1.83	4	24	17.04
Irish Town ..	2.56	1.00	5	6	4.62
Rose Hill ...	3.64	1.60	4	5	...
Hardware Gap ...	7.50	..	...	...	6.86
Stony Hill Ind. School ...	3.96	1.34	3	10	4.16
Castleton Gardens ...	7.13	...	...	.	12.92
Lawrence Tavern ...	4.43	1.83	1	7	4.48
Cedar Valley, Red Hills ...	2.79	0.87	4	10	...
Carew Castle ...	5.67	1.49	2	13	4.49
Agualta Vale ...	6.53	1.25	10	17	...
Water Valley ...	5.30	1.50	4	17	6.83
Albany, Ry. Station ..	...	...	...	...	...
Platfield ...	6.02	2.45	8	13	...
Richmond, St. Mary ..	4.47	1.84	8	8	9.50
Hampstead, St. Mary ...	11.16	2.07	5	18	...
Troja ...	5.90	3.10	8	8	...
Lucky Hill ...	8.21	1.33	22	20	...
Rio Hoe ...	4.31	0.93	2	11	9.10
Unity Valley ...	7.80	2.53	5	16	7.66
Moneague ...	5.99	0.86	28	10	7.60
Claremont ...	5.59	1.80	7	9	.
Albion, St. Ann ...	4.97	1.07	7	16	8.19
Averham Park ...	9.38	2.33	22	11	10.41
Means ...	7.23	...	.	...	...

DECEMBER, 1914.

NORTHERN DIVISION.	Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	9.69	1.44	31	19	8.06
Ocho Rios ...	5.53	0.86	28	10	5.74
Bogue, Ocho Rios ...	10.45	3.20	7	11	...
Drax Hall ...	6.75	1.50	5	13	8.47
Liberty Hill ...	12.34	3.35	4	11	...
St. Ann's Bay ...	7.19	1.90	5	16	7.07
Seville ...	8.85	3.70	5	16	7.77
Richmond Estate ...	4.84	...	...	...	...
Llandovery ...	4.24	1.34	23	8	8.17
Runaway Bay ...	4.15	0.90	25	11	...
Brown's Town ...	6.53	2.65	5	8	8.85
Alexandria ...	1.33	0.40	22	6	...
Chewmagna, St. Ann ...	4.08	1.00	7	9	3.38
Home Castle ...	2.87	0.85	23	7	7.63
Richmond Pen ...	6.50	3.30	5	6	4.86
Mahogany Hall ...	4.19	1.03	1	10	6.74
Barnstaple ...	4.00	1.40	1	9	...
Brampton Bryan ...	2.62	0.52	23	24	5.78
Bryan Castle ..	3.93	0.80	4	11	6.54
Braco ...	3.75	0.90	24	11	5.80
Arcadia ...	4.66	1.20	11	9	6.78
Lancaster ...	4.06	1.00	23	9	6.54
Harmony Hall ...	4.15	1.13	23	11	6.13
Vale Royal ...	4.78	1.13	4	9	7.88
Colchis Pen ...	2.86	0.62	23	9	4.59
Swanswick ...	3.59	0.72	11	11	...
Georgia ...	4.15	1.30	4	11	6.35
Long Pond ...	3.73	..	...	...	
Hyde Hall ...	3.05	0.57	25	12	5.00
Steelfield ..	3.74	...	...	...	...
Etingdon ...	4.09	1.20	7	9	4.71
Lottery ...	3.75	1.05	4	10	5.54
Falmouth ...	1.77	0.69	23	10	5.17
Florence Hall ...	2.38	0.90	23	9	...
Good Hope ...	6.97	2.50	7	12	...
Unity ...	4.36	0.95	8	11	...
Kent ...	3.65	...	...	...	...
Gales Valley ...	...	...	...	...	...
Canaan ...	7.27	2.32	4	14	5.03
Content ...	3.62	...	...	...	..
Bellfield ...	3.85	1.85	4	11	...
Guilsbro ...	4.07	1.24	4	18	4.40
Moor Park ..	4.22	2.55	4	9	5.95
Rose Hall ..	...	...	...	...	...
Montego Bay ...	4.06	0.98	2	7	4.75
Catherine Hall ...	4.87	1.11	2	11	5.61
Retirement ...	4.59	2.52	8	15	...
King Gate ...	2.24	0.58	7	6	3.74
Round Hill ...	...	.	...	...	...
Blue Hole ...	9.43	4.86	11	7	...
Haughton Court ...	2.27	0.57	11	8	...
Lucea ...	2.55	0.65	10	6	3.95
Green Island, Police St. ...	3.71	1.40	3	7	...
CENTRAL SUB-DIVISION.					
Rio Magno ...	...	..	...	...	...
Headworks, Rio Cobre ...	1.42	0.64	8	6	2.05
Linstead ...	2.31	0.45	9	11	3.70
Berkshire Hall ...	3.46	0.90	7	12	4.36
Point Hill ...	9.74	2.60	8	17	5.92
Marlie Hill ..	1.33	0.60	28	4	...
Worthy Park ...	5.70	1.89	5	10	2.68
Croft Hill ...	5.48	1.55	5	7	...
Chapelton ...	6.78	1.78	3	14	2.47
Danks Works* ...	...	..	...	...	..
Savoy House ...	5.64	1.05	3	13	2.81
Crooked River ...	11.19	2.05	3	13	..
Trout Hall ...	10.16	2.00	5	14	...
Cave Valley ..	4.50	1.50	18	16	...
Greenock ...	...	..	...	...	...
Means ..	4.71	...	...	...	...

*Not kept.

West-Central Division.	December, 1914.				
	Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Whitney ...	2.41	0.70	5	11	2.82
Mocho, Clarendon ...	1.25	0.70	4	6	...
Baillieston ...	4.00	1.06	3	3	2.44
Brokenhurst ...	3.27	0.70	5	12	...
Christiana ...	5.86	3.57	4	11	3.68
Chudleigh ...	2.36	0.72	26	13	...
Shooter's Hill ...	4.39	1.88	5	20	...
Spitzbergen ...	2.98	0.83	5	13	...
Kendal, Manchester ...	4.80	1.09	27	9	2.92
Marshalls Pen ...	2.73	0.81	5	6	3.65
Mandeville ...	2.35	0.48	30	12	3.62
Carlton, Mandeville ...	2.37	0.48	30	16	...
The Hill ...	3.03	0.82	24	9	...
Fairfield, Manchester ...	6.26	2.43	7	14	2.94
Ulster Spring ...	6.85	2.00	7	6	4.26
Freeman's Hall ...	4.60	2.50	1	5	...
Albert Town ...	6.40	2.60	2	6	...
Lowe River ...	9.01	2.74	5	9	4.00
Troy ...	8.60	4.30	31	7	3.58
Windsor Pen, Trel. ...	3.49	0.94	8	13	4.51
Medina ..	4.29	1.50	4	14	...
Wallingford ...	2.88	0.81	5	13	...
Balaclava Police Station ...	3.38	0.90	5	9	2.42
Siloah ...	7.20	2.05	1	11	...
Appleton Estate ...	4.42	1.21	1	12	3.04
Maggotty ...	5.56	2.29	1	12	2.98
Battlers ..	4.29	1.35	3	11	...
Donomilly Pen ...	7.59	1.72	3	12	...
Spring Vale ...	9.10	1.90	11	8	6.27
Garland ...	...	...	...	...	...
Mocho, Catadupa ...	...	...	...	...	...
Springfield, St. Elizabeth	3.91	1.05	2	13	...
Chesterfield, St. James ...	4.59	1.36	16	8	...
Catadupa Rly. Station ...	4.26	0.80	1	17	...
Kempshot ...	7.35	2.91	8	17	5.40
Cambridge, St. James ...	6.86	1.92	1	10	...
Ducketts ...	6.65	1.40	26	13	...
New Market, Police St. ...	4.03	0.90	2	8	...
The Bog, New Market ...	6.07	1.40	15	13	...
Kew Park ...	5.10	1.28	2	17	2.67
Knockalva ..	10.50	2.26	5	17	..
Ramble ...	8.72	2.27	3	14	...
Petersville ...	3.83	1.03	23	10	2.72
Darliston ...	5.34	1.10	2	13	3.47
Bluefields ...	2.63	0.85	15	7	...
Whithorn ...	4.27	0.80	27	14	2.94
Water Works Pen ...	5.20	1.75	11	14	...
*Great Valley, Han. ...	5.11	1.35	9	9	5.13
Prospect Park ...	...	...	...	...	...
Blackheath ...	4.04	0.75	27	7	...
Fontabelle, Westm. ...	2.27	0.69	2	10	3.19
Belleisle ...	2.39	0.63	3	9	2.73
Morgan's Bridge ...	3.28	1.52	24	10	3.23
King's Vale Police St. ...	3.20	2.20	11	6	3.33
Means ...	4.65	...	...	...	...

Southern Division.	December, 1914.				
	Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	5.47	1.80	19	19	6.41
Elliott Hill ...	10.27	3.54	12	...	...
Pleasant Hill ...	9.45	3.04	19	25	...
East Prospect ...	6.58	1.64	19	17	...
Morant Bay ...	6.01	1.63	8	16	4.52
Easington ...	3.82	1.02	8	14	3.31
Bull Bay ...	0.80	0.80	8	1	1.75
Bellevue ...	...	...	...	..	..
Gordon Town ...	0.55	0.45	18	2	...
Hope Gardens ...	1.80	...	...	...	2.83
King's House Gardens ...	2.50	...	...	...	1.90
Halfway Tree ...	1.32	0.52	22	4	2.12
Lunatic Asylum ...	0.52	0.26	30	6	2.03
Parade Gardens ...	...	..	...	...	...
Upper Elletson Road ...	0.65	0.27	30	8	...
Kingston P. W. Office ...	0.23	0.18	30	5	1.78
Plumb Point L. H. ...	0.88	0.39	30	10	1.60
Clifton Pen ...	0.30	0.25	30	2	...
Quarantine Station ...	0.30	0.20	30	3	...
Spanish Town ...	1.93	1.04	23	5	2.08
Hog Hole, St. Catherine...	2.61	1.30	8	7	2.83
Hartlands ...	4.28	2.00	8	6	2.23
Belmont, Guanaboa Vale	5.25	3.00	5	8	..
Old Harbour ...	3.76	1.37	8	7	2.71
May Pen ...	5.31	2.28	7	9	2.40
Hillside ...	4.33	1.40	26	7	3.19
Moreland ...	3.76	1.20	26	7	2.77
Dunkley's, Vere ...	5.10	3.07	7	10	1.91
Dry River " ...	3.44	1.00	7	12	...
Denbigh ...	2.32	0.80	10	4	2.12
Toll Gate ...	4.75	1.03	5	14	...
Woodleigh ...	3.46	1.50	10	4	...
New Yarmouth ...	3.07	1.51	7	7	1.97
Exeter, Vere ...	2.83	1.05	26	5	1.85
Rhymesbury ...	3.55	1.36	8	12	2.23
Milk River ...	2.45	0.95	26	3	2.61
Clarendon Pk. Ry. St. ...	5.26	1.20	28	11	...
Victoria Town ...	4.63	2.20	7	9	3.03
Hog Hole, S. Manch. ...	4.54	0.86	26	14	...
Stone's Hope ...	8.90	3.55	5	13	2.85
Newport, Manchester ...	5.02	1.34	5	10	4.11
Great Valley, Man. ...	4.45	1.17	23	17	2.77
Alligator Pond ...	1.99	1.10	23	3	2.70
Southfield, St. Elizabeth ...	1.70	0.59	26	8	...
Lititz ...	2.07	1.09	5	10	...
Long Hill ...	...	...	...	...	...
Torrington ...	3.03	1.10	23	7	2.72
Bethlehem, St. Eliz. ...	6.14	1.20	5	14	2.44
Santa Cruz ...	...	...	...	...	...
Pedro Plains Police St. ...	1.76	0.45	26	7	1.28
Mountainside ...	3.52	1.75	5	10	...
Black River ...	7.20	3.09	4	13	.27
Font Hill ...	2.60	0.45	18	12	2 08
Mount Edgecombe ...	2.22	0.80	23	9	2.44
Sweet River ...	2.10	0.60	19	8	2.46
Windsor, Sav.-la-mar ...	2.35	0.34	19	11	2.48
Orchard ...	2.83	0.70	11	12	...
Sav.-la-mar ...	1.35	0.45	6	7	2.36
Meylersfield ...	3.61	1.52	7	7	..
Retreat ...	2.60	0.75	17	7	2.41
White Hall ...	...	...	...	...	...
Negril Point L.H ...	2.95	2.30	16	9	2.12
Means ...	3.24	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

	December.	
	1914.	Average.
	In.	In.
North-Eastern Division ...	7.25	10.28
Northern „ ...	4.71	5.45
West-Central „ ...	4.66	3.60
Southern „ ...	3.24	2.61
The Island ...	4.96	5.48

The rainfall this month resembles that of November, but it was only half the amount. The heaviest rainfall was again recorded at Ecclesdown on the hills 3 or 4 miles west of Manchioneal, namely 20.77 inches; and the smallest was 0.23 at Kingston.

The Island Rainfall, 1914.

Month.	N.E.	N.	W.C.	S.	The Island.
	In.	In.	In.	In.	In.
Jan. ..	3.45	1.87	3.10	2.19	2.65
Feb. ..	3.29	1.05	2.35	1.53	2.06
Mar. ...	6.36	3.98	3.80	2.24	4.10
Apr. ...	5.68	3.09	7.07	3.11	4.74
May ...	5.61	3.84	12.54	4.48	6.62
June ...	5.24	3.21	9.65	2.87	5.24
July ...	3.34	1.68	4.84	1.91	2.94
Aug. ...	3.25	2.61	7.07	3.97	4.22
Sept. ...	2.87	3.38	6.55	2.22	3.76
Oct. ...	5.62	5.44	9.43	4.84	6.33
Nov. ...	16.90	8.67	7.82	5.59	9.74
Dec ..	7.25	4.71	4.66	3.24	4.96
Totals ...	68.86	43.53	78.88	38.19	57.36

Shocks of Earthquake in December, 1914.

Date.	Standard Time (Approx.)	Intensity.	Notes: where felt, etc.
	hr. min.		
5	10 15 a.m.	III.	Moy Hall, N & S; 5 sec. loud noise.
"	10 30 "	III.	Yallahs.
"	10 "	II.	Kingston, NW & SE, 0.008.
"	10 30 "	II.	Mt. Holstein, NE & SW, 0.007; a prolonged tremor.
8	10 30 "	I.	Kempshot.
"	10 38 "	I.	Mt. Edgecombe, N & S.
"	10 30 "	I.	Halfway Tree. Time uncertain.
9	1 20 "	II.	Mt. Holstein, NW & SE, 0.008.
12	9 50 p.m.	I.	" E & W, 0.006; NW & SE, 0.006; separated by a sec. or two.
13	7 a.m.	I.	" E & W, 0.005.
14	12 20 "	I.	Windsor Pen, Trelawny.
19	8 p.m.	I.	Mt. Holstein, N & S, 0.004.
24	10 45 "	IV.	Halfway Tree, NW & SE 0.080; NE & SW, 0.040 several tremors lasting 8 sec. then a pause of 1 sec., fol lowed by a shock.
"	" "	IV.	Kingston, NW & SE, 0.090.
"	" "	IV.	Annotto Bay. Two very heavy shocks.
"	" "	III.	Mt. Holstein, NW & SE, 0.028; NE & SW, 0.011; prolonged tremors for over 1 min
"	" "	II.	Morant Pt. L. H Two slight shocks of about 4 sec., separated by an interval of 2 min.
"	" "	III.	Plumb Pt. L. H., SE, 5 sec.
"	" "	II.	Race Course, Vere: time given at two places, both correct; but one reports "long and slow," and the other "short and sharp;" difference due to the ground, or foundations of the houses?
"	" "	II.	Unity Valley; three very light successive tremors.
"	" "	I.	Windsor Pen, Trelawny.
"	" "	III.	Mandeville
"	" "	I.	Butlers
"	" "	I.	Petersville, Westmoreland.
"	" "	II.	Negril Pt. L. H. NW & SE, 0.008.
31	10 p.m.	I.	Mt. Holstein, E & W, 0.004 slight sound.

The two shocks at Moraut Point were fully confirmed.

Magnetic Variation.

Kempshot.		Decl. E.
1912	...	2° 28′
1913	...	2° 30
1914	...	2° 31

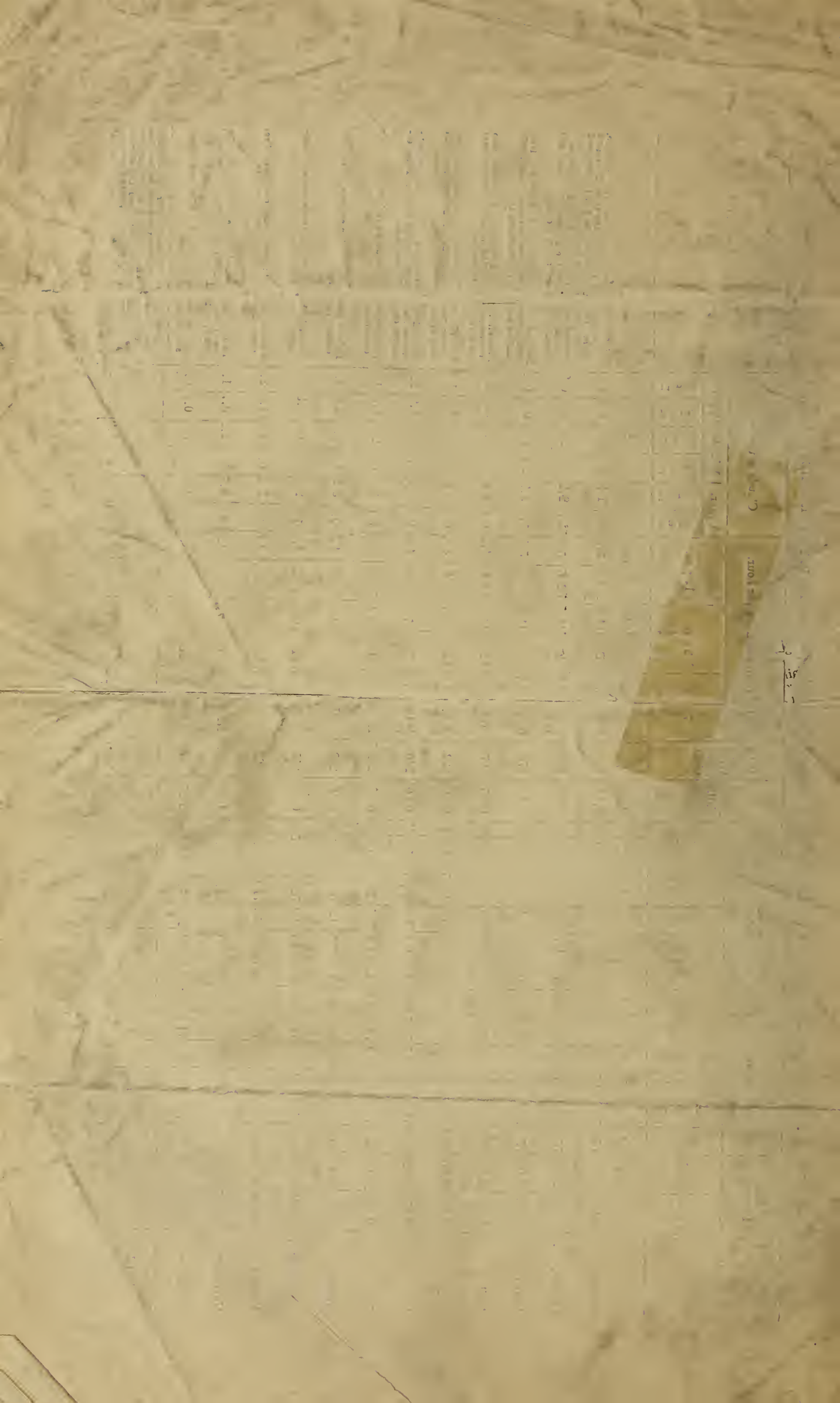
It is requested that for the future all communications to the Weather Office may be addressed to the Montego Bay P.O.

MAXWELL HALL,
Government Meteorologist.

Montego Bay P.O.

METEOROLOGICAL OBSERVATIONS, KINGSTON, JAMAICA. MEAN RESULTS FOR THE YEAR 1914.

Month.	Bar Pressure.		Temperature.						Extremes for the month.			Dewpoint and humidity.				Rainfall.	Miles of Wind per diem.	Wind from and miles per hour.						Clouds in tenths.						Weather Conditions.
																		7 a.m.		3 p.m.		11 p.m.		Lower.		Middle.		Upper.		
	7 a.m.	3 p.m.	Mean.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Min.	Range.	7 a.m.		3 p.m.										7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 p.m.	11 p.m.	
	Ins.	Ins.	°	°	°	°	°	°	°	°	°	°		°		Ins.			mls.		mls.		mls.					°			
January ..	29.971	29.928	76.5	70.3	82.1	86.9	68.8	18.1	89.4	63.9	25.5	63.4	79	66.6	60	0.14	189.5	NNE	6.4	SE	14.2	N by E	5.5	2.1	1.8	0.4	2.5	1.5	1.1	Rainfall considerably below the average. "Northers" on or about the 14th, 27th and 28th. Distant lightning to NE towards end of the month. Fine generally.
February ..	29.993	29.938	76.8	70.0	83.5	87.2	68.5	18.7	91.4	61.7	29.7	62.6	77	65.1	54	0.28	209.6	N by E	5.6	SE	15.2	NNE	5.5	1.0	2.9	1.8	2.7	0.4	0.2	Rainfall below the average. Sea breeze continued throughout the nights, 12th, 19th and 20th. "Norther" about the 22nd.
March ..	29.987	29.936	77.4	71.5	83.9	87.3	69.0	18.3	90.3	65.4	24.9	64.5	79	67.0	57	0.56	178.3	N	4.7	SE	11.6	N	5.1	1.4	2.7	2.0	3.8	0.1	0.4	Rainfall about one-half the average Humidity somewhat below the mean. "Northers" on 2nd and 3rd, SE squall on 11th.
April ..	29.960	29.914	78.7	74.9	83.1	87.3	71.4	15.9	90.3	68.6	21.7	67.2	77	69.8	64	0.95	197.8	NE	4.5	SE	14.2	ENE	4.5	0.8	4.6	0.8	1.5	3.5	1.5	Rainfall about the average. Humidity also corresponds with the mean. Thunderstorm on 30th. Fair throughout.
May ..	29.952	29.904	81.1	78.6	85.0	89.6	73.0	16.6	93.8	70.6	23.2	69.0	72	71.3	64	0.80	222.8	N by E	4.3	SE	18.7	NNE	3.4	0.6	4.6	1.1	1.2	2.0	1.0	Rainfall very deficient. Distant lightning latter part of month. Thunderstorm 30th and 31st.
June ..	29.957	29.922	81.4	78.1	85.7	90.3	73.7	16.6	92.6	70.1	22.5	69.5	75	71.4	63	0.60	240.5	N by E	5.0	SE	17.3	ENE	4.5	0.6	2.4	1.1	1.8	1.2	2.3	Rainfall very deficient. Humidity slightly below the average. Fine on 9 days. Thunderstorm on 5th, 7th and 9th.
July ..	29.982	29.931	82.5	78.7	87.4	91.6	74.3	17.3	95.3	71.6	23.7	68.3	70	71.0	58	0.18	282.7	NNE	3.7	SE	21.9	E by S	5.6	0.6	1.1	0.7	2.0	1.5	1.4	Thunderstorms from about 19th to 25th. Fair otherwise.
August ..	29.966	29.916	81.5	77.7	85.7	90.7	74.1	16.6	94.0	72.2	21.8	70.3	78	73.2	66	0.80	232.0	NNE	3.6	SE	19.7	ENE	4.2	0.4	3.0	1.4	1.6	2.4	1.3	Rainfall about one-fifth the average. Frequent distant lightning.
September ..	29.918	29.874	81.6	77.3	86.2	90.8	74.2	16.6	94.6	72.7	21.9	70.0	78	73.5	66	0.82	215.7	NE by N	3.7	SE	18.4	ENE	4.1	1.1	2.2	0.8	1.9	2.3	2.5	Rainfall about one-fifth the average. Occasional distant lightning. Squally on 24th.
October ..	29.900	29.852	80.8	76.6	84.2	90.7	73.9	16.8	94.7	69.2	25.5	71.0	83	73.3	70	1.58	169.4	NE	4.7	SE	12.3	NE by E	3.6	1.2	2.5	0.6	1.7	1.8	3.9	Rainfall deficient: being only one-fifth. Frequent thunderstorm. Squally on 25th.
November .	29.892	29.847	78.9	73.7	83.7	88.9	72.2	16.0	92.0	69.8	22.2	69.4	86	74.8	75	1.56	128.4	NNE	4.6	SE	7.7	NNE	4.0	2.2	3.7	1.3	2.2	0.7	1.3	Rainfall about one-half the average. Squally on 13th. Frequent lightning. "Norther," fresh, on 22nd.
December ..	29.928	29.879	79.1	73.1	84.5	89.1	71.8	17.3	91.9	70.2	21.7	67.6	83	71.1	64	0.23	157.0	NNE	5.0	SE	10.5	NE	4.5	1.7	1.8	0.5	3.3	0.7	0.4	Rainfall deficient. Squally 25th and 26th; also 29th and 30th.
Total ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8.50														Rainfall just about one-quarter the average. The mean temperature was 0.09° higher than the average. The extreme Max. temperature 95.3° occurred on July 28th, and the extreme Min. 61.7° on Feb. 23rd. Greatest range of temp. 23.6° on Feb. 9th, and least range 8.4° on April 29th.
Means ..	29.951	29.903	79.7	75.0	84.4	89.1	72.0	17.1	92.5	68.8	23.7	67.7	78	70.7	63		202.0	NNE	4.6	SE	15.2	NE by N	4.5	1.1	2.8	1.0	2.2	1.5	1.4	



OF THE
UNIVERSITY OF ILLINOIS
31 MAR 1915

No. 438.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

JANUARY, 1915.

The Bar. pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.958	29.913	78.0	80.5	82.3	73.1	9.2	83.5	5*	65.5	21	18.0
Kingston ..	24	29.931	29.882	71.1	82.3	86.2	70.3	15.9	89.9	29	66.8	25	23.1
Negril Point Light House ..	33	29.942	29.892	72.5	81.7	84.1	70.1	14.0	86.7	10	67.0	26	19.7
Castleton Gardens ..	496	..	..	63.8	81.1	85.1	62.3	22.8	90	6	58	24*	32
Hope Gardens† ..	668	29.963	29.859	68.8	81.6	85.5	67.2	18.3	90	3	64	27	26
Stony Hill Indus. School ..	1,400	..	..	67.8	78.1	80.5	65.6	14.9	84	2*	63	24*	21
Hill Gardens ..	4,900	25.280	25.232	61.5	63.2	66.2	54.5	11.7	70	18	52	26*	18

Stations.	Elevation.	Dew Point and Humidity. 7 a.m.		Dew Point and Humidity. 3 p.m.		Rainfall.	Wind per diem.	Wind: direction from and miles per hour. 7 a.m.		Wind: direction from and miles per hour. 3 p.m.		Amount of Cloud. Lower, Middle and Upper. 7 a.m.			Amount of Cloud. Lower, Middle and Upper. 3 p.m.		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	72.4	82	73.1	78	4.30	313	N.E. by E.	17	N.E. by E	15	3.8	1.0	0.6	2.7	1.0	1.1
Kingston ..	24	64.5	80	71.0	69	1.11	173	N.E. by N.	5.4	S.E.	11.5	3.4	0.1	0.1	3.3	2.4	0.2
Negril Point Light House‡ ..	33	67.7	85	72.4	70	3.43	223	E.	3.5	S.S.E.	12.2	1.7	1.0	0.0	2.6	4.0	0.0
Castleton Gardens ..	496	64.8	93	70.9	69	6.02	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	65.2	87	69.4	64	3.70	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	65.1	91	71.9	81	5.27	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	57.0	83	61.3	93	7.76	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.

‡ Negril Point Light House. Wind 11 p.m. N.E. 8.4.

Plumb Point Light House { Average No. of Miles of wind per diem 288; Greatest on the 18th 590; Least on the 31st 105

THE RAINFALL.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Hoiland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	JANUARY, 1915. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	8.34	2.03	1	12	5.94
Ecclesdown ...	13.98	2.10	1	21	..
Spring Valley, Portland ...	12.77	2.02	1	21	.
Bath ..	9.27	3.28	1	21	6.26
Boston ...	8.45	1.80	13	10	9.50
Moore Town ...	13.95	...	...	...	18.55
Port Antonio ...	12.45	3.20	1	18	9.10
Fellowship ...	12.35	3.15	1	24	14.16
Windsor, Portland ...	...	...	...	...	...
Johnson River Bridge ...	7.11	4.07	1	17	3.59
Shrewsbury ...	13.23	2.60	14	9	20.02
Cedar Valley, St. Thos. ...	9.11	4.84	1	13	4.46
Hope Bay ...	10.55	2.70	1	15	...
Moy Hall, St. Thos. ...	12.81	3.50	1	12	3.46
Brooklodge ...	7.23	3.34	1	17	..
Lennox ...	11.17	3.25	16	14	...
Farm Hill ...	8.63	3.60	22	7	6.79
Hill Gardens ...	7.76	...	...	...	7.09
Buff Bay ...	7.20	2.32	16	9	10.22
Vinery ...	9.88	2.90	16	9	..
Windsor Castle, Port. ...	7.42	3.21	16	6	...
Greenvale, Portland ...	10.08	3.00	21	14	...
Mt. Holstein ...	6.33	1.75	21	20	14.03
Irish Town ...	5.90	1.29	1	8	2.49
Rose Hill ...	6.47	1.55	20	10	...
Hardware Gap ...	9.00	..	...	...	4.95
Stony Hill Ind. School ...	5.27	1.20	1	13	3.30
Castleton Gardens ...	6.02	..	...	...	8.87
Lawrence Tavern ...	4.34	1.00	5	8	1.95
Cedar Valley, Red Hills ...	5.29	1.33	5	8	...
Carew Castle ...	5.51	1.05	31	17	2.60
Agualta Vale ...	8.85	2.93	21	11	...
Water Valley ...	8.01	2.72	21	11	7.90
Albany, Ry. Station ..	8.56	3.21	21	10	...
Platfield ...	5.41	1.65	21	12	...
Richmond, St. Mary ...	8.71	2.74	21	10	6.18
Hampstead, St. Mary ...	12.63	3.66	21	17	...
Troja ...	7.15	2.50	22	10	...
Lucky Hill ...	9.77	2.65	21	10	...
Rio Hoe ...	7.07	1.83	14	13	5.47
Unity Valley ...	7.47	1.82	14	17	4.69
Moneague ...	4.72	1.62	14	12	4.18
Claremont ...	5.51	1.48	21	10	6.12
Albion, St. Ann ...	6.74	1.70	21	16	5.15
Averham Park ...	5.80	1.65	21	12	6.88
Means ...	8.11	...	...	...	...

NORTHERN DIVISION.	JANUARY, 1915. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	4.57	0.78	13	14	6.72
Ocho Rios ...	1.93	1.25	14	13	5.42
Bogue, Ocho Rios ...	5.21	1.50	16	5	...
Drax Hall ...	7.10	1.90	16	12	4.84
Liberty Hill ...	7.20	2.20	14	6	...
St. Ann's Bay ...	5.00	1.55	16	15	5.01
Seville ...	6.75	1.90	16	12	5.61
Richmond Estate ...	...	...	...	...	...
Llandovery ...	6.63	1.54	16	10	6.62
Runaway Bay ...	5.60	1.50	1	8	...
Brown's Town ...	3.52	0.96	13	9	5.41
Alexandria ...	3.83	0.80	14	8	...
Chewmagna, St. Ann ...	3.33	0.75	21	11	2.70
Home Castle ...	6.75	1.95	20	6	5.39
Richmond Pen ...	2.90	0.95	21	6	3.48
Mahogany Hall ...	6.81	2.10	21	11	4.76
Barnstaple* ...	9.24	2.20	21	10	...
Brampton Bryan ...	13.54	4.20	20	19	4.12
Bryan Castle ...	13.90	4.00	21	15	4.66
Braco ...	12.50	6.05	21	13	4.17
Arcadia ...	19.46	6.03	21	14	4.38
Lancaster ...	13.30	6.23	21	10	4.59
Harmony Hall ...	12.23	4.65	21	16	3.97
Vale Royal ...	17.54	5.48	21	14	4.94
Colchis Pen ...	3.16	0.95	21	9	3.29
Swanswick* ...	11.80	4.15	21	12	...
Georgia ...	12.88	5.20	20	11	3.96
Long Pond ...	13.71	5.14	20	7	4.55
Hyde Hall ...	14.19	5.20	20	14	3.67
Steelfield* ...	12.17	4.19	20	7	4.38
Etingdon ...	13.02	4.55	20	14	2.92
Lottery ...	16.65	8.00	20	12	3.78
Falmouth ...	6.59	2.73	20	12	3.60
Florence Hall ...	9.33	5.30	21	9	...
Good Hope ...	13.94	6.10	20	13	...
Unity ...	7.31	3.60	21	10	...
Kent ...	8.36	2.50	20	10	3.96
Gales Valley ...	...	...	...	...	...
Canaan ...	15.78	7.40	20	13	3.08
Content ...	6.94	2.54	20	10	4.41
Bellfield ...	12.74	5.60	20	10	..
Guilsbro ...	14.59	5.91	20	21	3.15
Moor Park ...	8.88	4.00	20	15	4.19
Rose Hall ...	8.00	1.85	21	10	3.38
Running Gut ...	7.70	2.40	1	10	3.54
Cinnamon Hill ...	8.55	2.50	20	10	3.51
Success ...	7.95	1.85	20	10	3.84
Montego Bay ...	11.23	7.30	20	11	2.92
Catherine Hall ...	13.07	7.94	20	10	3.51
Retirement ...	12.55	5.88	20	17	2.00
King Gate ...	9.96	7.45	20	5	3.94
Round Hill ...	...	...	...	...	...
Blue Hole ...	16.43	11.00	20	11	...
Haughton Court* ...	8.52	4.21	20	6	...
Lucea ...	7.65	2.30	20	9	3.07
Green Island, Police St. ...	3.85	2.05	20	9	...
CENTRAL SUB-DIVISION.					
Headworks, Rio Cobre ...	1.90	0.47	1	8	1.84
Linstead ...	2.34	0.65	21	9	2.15
Berkshire Hall ...	5.05	1.65	21	13	2.96
Point Hill ...	6.15	1.10	21	17	2.74
Marlie Hill ..	5.76	1.85	31	10	...
Worthy Park ...	3.28	0.81	5	9	2.04
Croft Hill ...	3.99	0.78	5	11	..
Chapelton ...	3.15	1.28	30	11	2.24
Danks Works* ...	4.36	1.55	30	10	1.89
Savoy House ...	3.77	1.38	30	14	2.29
Crooked River ...	5.75	1.50	30	13	...
Trout Hall ...	4.79	1.93	30	9	...
Cave Valley ...	4.20	1.50	16	21	2.26
Greenock ...	...	...	...	...	...
Means ...	8.58	...	...	...	...

* Gauge overflowed.

WEST-CENTRAL DIVISION.	JANUARY, 1915. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Whitney ...	4.30	0.60	19	17	2.68
Mocho, Clarendon ...	3.00	1.00	12	6	...
Baillieston ...	1.54	0.29	21	...	2.79
Brokenhurst ...	...	...	...	...	...
Christiana ...	3.36	0.84	21	17	2.35
Chudleigh ...	3.94	0.85	20	17	...
Shooter's Hill ...	3.99	0.99	30	18	...
Spitzbergen ...	2.65	0.60	1	14	...
Kendal, Manchester ...	2.98	0.76	11	6	2.39
Marshalls Pen ...	4.30	1.14	1	14	2.85
Mandeville ...	4.75	1.10	19	11	3.04
Carlton, Mandeville ...	5.23	1.56	19	13	2.70
The Hill ...	2.82	1.15	1	7	...
Fairfield, Manchester ...	3.13	0.62	12	7	2.61
Ulster Spring ...	12.98	2.00	13	11	3.06
Freeman's Hall ...	4.90	1.00	21	10	...
Albert Town ...	4.55	0.80	4	9	...
Lowe River ...	4.90	1.25	21	9	2.92
Troy ...	3.90	1.20	4	9	2.25
Windsor Pen, Trel. ...	5.77	3.00	21	14	3.13
Medina ...	5.72	1.47	5	12	...
Wallingford ...	3.44	1.34	20	19	...
Balaclava Police Station ...	5.20	1.85	20	14	1.71
Siloah ...	4.42	1.05	20	13	3.08
Appleton Estate ...	...	...	...	...	...
Maggotty ...	2.69	0.88	12	12	2.72
Butlers ..	3.11	0.57	19	11	...
Dromilly Pen ...	11.24	4.00	21	11	...
Spring Vale ...	9.54	4.50	21	7	...
Garland ...	...	...	...	...	...
Mocho, Catadupa ...	8.46	1.70	21	4	...
Springfield, St. Elizabeth	2.96	1.16	21	12	2.04
Chesterfield, St. James ...	..	...	...	...	...
Catadupa Rly. Station ...	6.74	1.22	20	14	...
Kempshot ...	14.02	5.04	21	19	3.98
Cambridge, St. James ...	8.87	1.43	21	15	...
Ducketts ...	...	...	...	...	...
New Market, Police St. ...	2.47	0.58	6	7	...
The Bog, New Market ...	3.37	0.95	7	14	...
Kew Park ...	5.86	1.27	20	12	2.32
Knockalva ..	10.66	3.45	20	14	...
Ramble ...	11.74	...	..	13	...
Petersville ...	5.85	1.15	7	13	2.25
Darliston ...	4.40	0.70	4	15	2.93
Bluefields ...	4.63	0.72	20	16	3.52
Whithorn ...	6.06	2.50	21	15	1.97
Water Works Pen ...	5.52	2.10	4	11	...
*Great Valley, Han. ...	14.05	4.20	13	6	4.68
Prospect Park ...	...	...	...	...	...
Blackheath ...	3.52	1.78	20	13	...
Fontabelle, Westm. ...	4.52	1.11	21	11	1.94
Belleisle ...	3.42	2.05	20	12	1.80
Morgan's Bridge ...	5.68	1.93	21	9	1.82
King's Vale Police St. ...	8.90	3.50	20	11	3.26
Means ...	5.55	...	...	...	...

SOUTHERN DIVISION.	JANUARY, 1915. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	4.30	1.17	1	16	4.30
Elliott Hill ...	8.02	2.32	2	23	...
Pleasant Hill ...	7.61	2.04	1	25	...
East Prospect ...	6.25	1.97	1	21	...
Morant Bay ...	6.97	3.22	1	17	2.70
Easington ...	5.92	4.25	1	17	1.64
Bull Bay ...	4.94	3.85	1	2	0.87
Bellevue ...	...	...	...	...	..
Gordon Town ...	5.34	1.50	1	11	2.08
Hope Gardens ...	3.70	...	...	...	1.77
King's House Gardens ...	2.48	...	...	...	1.22
Halfway Tree ...	2.07	0.94	1	5	1.12
Lunatic Asylum ...	1.69	1.27	1	6	0.72
Parade Gardens ...	...	...	...	...	...
Upper Elletson Road ...	1.99	1.45	1	4	...
Kingston P. W. Office ...	1.11	0.54	1	6	1.02
Plumb Point L. H. ...	1.41	0.70	1	5	0.80
Clifton Pen ...	1.88	1.00	1	4	...
Quarantine Station ...	1.19	0.62	2	5	...
Spanish Town ...	1.90	0.47	1	8	1.52
Hog Hole, St. Catherine...	2.13	1.00	30	8	1.71
Hartlands ...	2.07	1.05	1	6	1.78
Belmont, Guanaboa Vale	4.00	1.00	30	21	..
Old Harbour ...	3.11	1.10	12	10	2.07
May Pen ...	1.89	0.39	19	10	1.26
Hillside ...	3.11	1.35	30	8	...
Moreland ...	4.70	1.65	30	12	...
Dunkley's, Vere ...	2.65	0.57	1	10	1.33
Dry River " ...	2.55	0.47	19	15	...
Denbigh ...	1.50	0.40	7	5	1.59
Toll Gate ...	2.59	0.70	19	8	...
Woodleigh ...	1.90	0.50	7	5	...
New Yarmouth ...	2.17	0.55	1	10	1.20
Exeter, Vere ...	3.20	0.82	1	6	1.64
Rhymesbury ...	3.23	0.86	19	14	1.01
Milk River ...	2.06	0.60	1	8	1.50
Clarendon Pk. Ry. St. ...	3.67	0.70	12	16	...
Victoria Town ...	4.12	1.04	19	8	1.80
Hog Hole, S. Manch. ...	5.57	1.26	19	12	...
Stone's Hope ...	4.35	1.16	19	10	2.68
Newport, Manchester ...	4.36	0.82	19	16	2.66
Great Valley, Man. ...	3.74	0.75	11	15	2.49
Alligator Pond ...	0.92	0.54	21	4	1.41
Southfield, St. Elizabeth ...	2.61	0.60	19	12	..
Lititz ...	1.12	0.48	12	9	...
Long Hill ...	...	...	...	...	...
Torrington ...	2.45	1.08	15	8	2.31
Bethlehem, St. Eliz. ...	2.22	0.44	21	14	2.52
Santa Cruz ...	2.35	0.84	31	7	2.82
Pedro Plains Police St. ...	1.08	0.40	12	8	2.04
Black River ...	1.74	0.37	21	12	1.63
Font Hill ...	0.90	0.40	20	3	1.88
Mount Edgecombe ...	3.89	0.57	7	14	...
Sweet River ...	4.70	1.30	21	10	1.82
Windsor, Sav.-la-mar ...	3.18	1.20	22	12	1.83
Orchard ...	4.52	1.25	4	12	...
Sav.-la-mar ...	2.44	1.28	7	10	1.62
Meylersfield ...	1.76	0.86	20	4	...
Retreat ...	2.39	0.85	21	6	1.57
White Hall ...	...	...	...	...	...
Negril Point L.H. ...	3.43	0.93	20	10	1.34
Means ...	3.03	...	...	...	...

* Gauge overflow.

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

—	January. 1915.	January. Average.
	In.	In.
North-Eastern Division ...	8.11	7.15
Northern „ ...	8.58	3.77
West-Central „ ...	5.55	2.85
Southern „ ...	3.03	1.81
The Island ...	6.32	3.88

The heaviest rainfall of 19.46 inches was recorded at Arcadia in Trelawny. The lowest rainfall 0.92 was recorded at Font Hill in the Southern division.

It is requested that for the future all communication to the Weather Office, be addressed to Montego Bay P.O

Shocks of Earthquake in January, 1915.

Date.	Standard Time (Approx.) hr.	min.	Intensity.	Notes: where felt, etc.
2	3	30 p.m.	I.	Mt. Holstein, E. & W. 0.0 (N. & S., 0.004 Double shock with interval one sec.
6	11	0 p.m.	I.	Billy Dun.
16	"	" "	I.	Mt. Holstein, N. & S., 0.007. and at Buff Bay.
18		30 a.m.	III.	Glengoffe.

MAXWELL HALL,
Government Meteorologist.

Montego Bay P.O.

Negril Point Light House. Mean Results for the y. ar 1914. Elevation 33 feet.

Month. 1914.	Barometer.		Temperature.						Extremes for Month.			Dew Point and Humidity.				Rain-fall.	Miles of Wind per diem.
	7 a.m.	3 p.m.	Mean	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Min.	Range	7 a.m.	7 a.m.	3 .p.m.	3 p.m.	inches.	
	in.	in.	°	°	°	°	°	°	°	°	°	°	°	°	°		
January ..	29.989	29.945	75.2	71.3	80.3	82.7	68.6	14.1	85.5	61.0	24.5	65.7	83	71.3	74	2.12	214
February ..	30.010	29.959	75.9	72.2	80.8	83.7	69.0	14.7	88.5	63.6	24.9	64.8	78	68.2	66	1.83	233
March ..	30.001	29.957	7 .0	72.9	80.4	83.2	69.6	13.6	85.8	63.5	22.3	66.0	79	68.9	68	4.67	272
April ..	29.966	29.924	77.9	76.9	81.4	84.5	70.9	13.6	86.7	65.5	21.2	69.9	79	71.6	72	4.00	202
May ..	29.962	29.925	79.4	79.1	82.6	86.0	71.9	14.1	88.5	69.6	18.9	70.3	74	72.5	72	9.83	180
June ..	29.967	29.939	80.3	80.0	83.6	86.9	72.7	14.2	90.0	69.4	20.6	70.3	72	73.3	71	5.53	168
July ..	29.994	29.962	81.7	80.2	86.1	88.3	74.0	14.3	91.5	70.4	21.1	69.3	69	73.6	66	2.53	197
August ..	29.975	29.944	80.3	79.0	83.5	87.5	73.3	14.2	89.5	69.8	19.7	71.3	77	75.9	78	8.59	178
September ..	29.926	29.888	80.7	79.4	84.2	87.7	73.4	14.3	88.8	70.9	17.9	71.4	76	74.2	73	4.69	174
October ..	29.909	29.862	80.4	78.8	84.2	87.0	73.5	13.5	90.2	69.6	20.6	71.6	79	72.6	68	5.29	223
November ..	29.906	29.857	78.6	76.2	82.9	85.5	71.7	13.8	88.5	67.6	20.9	70.5	82	72.4	71	4.60	210
December ..	29.942	29.891	78.5	74.5	84.1	86.1	71.4	14.7	88.8	67.6	21.2	68.3	81	72.1	67	2.95	200
Means ..	29.962	29.921	78.7	76.7	82.8	85.7	71.6	14.1	88.5	67.4	21.1	69.1	77	72.2	. 70	..	206

Total 56.63

Mean Results, continued. Negril Point Light House.

Month 1914	Wind: from and Miles per hour						Clouds: in tenths of Sky.						Weather Conditions.
							Lower.		Middle.		Upper.		
	7 A.M.		3 P.M.		11 P.M.		7 a.m	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	
January ..	E	8.0	SE	16.0	ENE	10.0	2.9	2.6	1.6	2.9	1.6	0.6	Fine on 5, Cloudy 8, Overcast 12, and Rain on 6 days. Lightning a few days. Th on 30th.
February ..	ENE	9.3	SE	13.0	ENE	9.7	2.0	1.5	1.8	4.4	0.0	0.0	Fine on 3, Cloudy 10, Overcast 6, and Rain on 9 days. Shocks of Earthquake on 14th and 28th.
March ..	NE	10.3	NE	14.9	NE	11.1	2.2	3.1	0.5	3.2	0.4	0.3	Fine on 8, Cloudy 5, Overcast 4, and Rain on 14 days.
April ..	E	7.3	SSE	12.1	ENE	7.5	2.9	4.1	0.2	4.5	2.1	0.0	Fine on 3, Cloudy 3, Overcast 11. Rain an 13 days ; T on 29. L on a few days.
May ..	ENE	6.8	E	9.5	E by N	6.4	0.6	2.2	0.1	6.4	3.2	0.3	Fine on 3, Cloudy 4, Overcast 7, and Rain on 17 days. Th on 5 days. N and T on a few days. Shocks of Earthquake on 27th.
June ..	E	6.2	ESE	10.9	E	6.2	1.0	3.3	0.2	5.7	1.3	0.0	Cloudy on 4, Overcast 10. Rain on 16 days. Th, T and fair on many days.
July ..	E by S	8.0	S	11.1	E	6.8	1.5	2.3	0.2	4.8	1.9	.1	Fine 3. Cloudy 7, Overcast 13; Rain on 8 days, Th on 3 days. L and Th on many days.
August ..	E	7.0	S	10.0	E	5.6	1.2	3.5	0.0	5.6	3.4	0.0	Fine 1, Cloudy 3, Overcast 8, Rain on 19 days. Th on 12 days; T or Th on many days. Shocks of Earthquake on 3rd.
September ..	E by S	8.4	S by E	9.8	ENE	6.8	0.7	2.3	0.3	6.1	3.7	0.3	Fine 3, Cloudy 3, Overcast 9 and Rain on 15 days. Th T or fair on many days.
October ..	ESE	8.4	SE	12 2	E by N	7.6	0.8	2.6	1.2	5.0	3.2	0.7	Cloudy 9, Overcast 10, Rain on 12 days. Th T or L on a few days. Shock of Earthquake on 14th.
November ..	E	6.9	NE by N	10.3	NE	9.6	1.5	2.3	1.0	3.5	2.1	0.9	Fine 5, Cloudy 7, Overcast 6, Rain on 12 days, Th T and rain a few days. Norther on 20th.
December ..	E	8.3	ENE	10.8	ENE	8.1	1.3	0.8	0.6	5.1	0.3	0.3	Fine 6, Cloudy 9, Overcast 7, Rain on 9 days. Shock of Earthquake on 24th.
Mean ..	E	7.9	SE	11.7	ENE	7.9	1.6	2.5	0.6	4.7	1.9	0.3	150 Rainy days in the year.

M. H.

Black
A
UNIVERSITY OF ILLINOIS
23 APR 1915

No. 439.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

FEBRUARY, 1915.

The Bar. pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.977	29.937	76.9	78.5	81.2	72.5	8.7	84.0	3	65.5	9	18.5
Kingston ..	24	29.953	29.901	69.5	82.0	86.0	68.4	17.6	88.5	4	65.1	12	23.4
Negril Point Light House ..	33	29.964	29.919	72.0	80.6	82.6	69.3	13.3	84.8	4	66.8	9	18.0
Castleton Gardens ..	496	..	..	65.9	78.7	83.1	..	..	88	3	..	..	..
Hope Gardens† ..	668	29.973	29.889	67.7	80.6	84.9	64.9	20.0	89	26	62	14	27
Stony Hill Indus. School ..	1,400	..	..	67.6	76.4	80.1	63.8	16.3	86	16	61	9*	25
Hill Gardens ..	4,900	25.284	25.234	59.1	62.0	65.3	52.4	12.9	69	2*	50	16	19

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction from and miles per hour.				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	70.5	80	71.1	78	4.39	359	N.E.	19	N.E.	19	3.8	0.5	0.3	4.4	0.6	1.1
Kingston ..	24	64.5	84	69.2	65	0.83	180	N.	5	S.E.	12	0.4	0.9	0.7	2.9	2.2	0.6
Negril Point Light House‡ ..	33	65.1	79	67.9	66	5.62	267	E.	11	N.	12	1.8	0.4	1.4	1.4	2.4	0.3
Castleton Gardens ..	496	63.0	90	69.2	72	6.94	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	61.6	71	68.0	65	1.08	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	63.9	88	72.0	86	2.89	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	55.3	87	59.0	90	6.77	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m. N.E. 11.2

Plumb Point Light House { Average No. of Miles of wind per diem 195; Greatest on the 31st 486; Least on the 5th 98

THE RAINFALL.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	FEBRUARY, 1915. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	9.82	3.49	9	11	6.10
Ecclesdown ...	10.47	1.52	19	12	..
Spring Valley, Portland ...	9.14	3.46	9	13	.
Bath ..	4.63	1.18	16	18	4.86
Boston ...	8.25	2.45	9	10	6.14
Moore Town ...	11.27	...	...	...	14.18
Port Antonio ...	10.87	4.64	9	10	6.10
Fellowship ...	11.38	3.14	9	18	11.70
Windsor, Portland ...	...	...	...	...	...
Johnson River Bridge ...	1.30	0.32	16	17	2.24
Shrewsbury ...	14.65	4.58	9	13	10.22
Cedar Valley, St. Thos. ...	1.70	0.40	16	7	2.76
Hope Bay ...	...	...	...	...	...
Moy Hall, St. Thos. ...	3.26	1.35	7	9	2.45
Brooklodge ...	1.63	0.70	8	11	...
Lennox ...	13.85	3.00	19	16	...
Farm Hill ...	4.35	1.50	9	6	3.25
Hill Gardens ...	6.77	...	...	...	4.05
Buff Bay ...	7.93	1.94	19	13	7.74
Vinery ...	8.78	1.65	9	14	..
Windsor Castle, Port. ...	4.68	0.77	5	12	...
Greenvale, Portland ...	9.93	3.10	9	17	...
Mt. Holstein ...	9 27	2.22	9	16	7.46
Irish Town ..	...	...	...	...	...
Rose Hill ...	2.46	1.00	8	4	...
Hardware Gap ...	..	..	...	...	...
Stony Hill Ind. School ...	2.89	1.74	3	9	2.22
Castleton Gardens ...	6.94	..	...	...	4.95
Lawrence Tavern ...	1.58	0.40	6	8	2.36
Cedar Valley, Red Hills ...	2.99	0.82	1	9	...
Carew Castle ...	4.50	1.71	5	7	1.84
Agualta Vale ...	3.62	0.83	4	11	...
Water Valley ...	3.37	0.76	4	11	5.73
Albany, Ry. Station ..	5.68	0.90	19	14	...
Platfield ...	2.92	0.94	17	7	...
Richmond, St. Mary ..	4.81	0.98	5	12	5.31
Hampstead, St. Mary ...	7.15	1.81	6	18	...
Troja ...	...	...	...	...	...
Lucky Hill ...	4.67	1.00	7	12	...
Rio Hoe ...	3.41	1.37	5	11	4.05
Unity Valley ...	3.46	1.20	7	11	3.60
Moneague ...	4.42	1.45	7	9	4.08
Claremont ...	5.72	1.47	5	6	4.58
Albion, St. Ann ...	4.25	0.84	7	12	3.59
Averham Park ...	9.08	3.41	7	7	4.50
Means ...	6.15	...	..	...	...

NORTHERN DIVISION.	FEBRUARY, 1915. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	3.74	0.82	8	11	5.95
Ocho Rios ...	6.10	4.30	8	5	3.85
Bogue, Ocho Rios ...	6.10	2.40	8	9	...
Drax Hall ...	5.25	2.00	8	9	4.47
Liberty Hill ...	6.68	3.42	7	11	...
St. Ann's Bay ...	3.62	1.74	8	8	4.88
Seville ...	4.46	2.15	8	8	4.29
Richmond Estate ...	...	...	...	...	...
Llandovery ...	4.26	1.70	8	4	4.57
Runaway Bay ...	1.95	1.15	8	3	...
Brown's Town ...	3.12	2.02	8	4	4.74
Alexandria ...	3.22	1.10	7	4	...
Chewmagna, St. Ann ...	3.08	0.87	5	8	3.21
Home Castle ...	5.05	2.95	8	6	3.16
Richmond Pen ...	2.15	1.15	8	4	2.18
Mahogany Hall ...	...	...	...	...	...
Barnstaple ...	4.88	2.00	9	6	...
Brampton Bryan ...	...	...	...	...	...
Bryan Castle ...	3.55	1.75	8	6	2.32
Braco ...	2.65	1.50	8	14	2.23
Arcadia ...	6.51	3.65	8	8	2.36
Lancaster ...	2.56	1.56	8	3	2.51
Harmony Hall ...	2.34	1.30	8	5	2.33
Vale Royal ...	3.59	2.19	8	7	2.72
Colchis Pen ...	2.73	1.10	8	5	1.74
Swanswick ...	3.60	2.00	8	4	...
Georgia ...	3.00	1.60	8	4	2.56
Long Pond ...	4.49	1.61	9	5	...
Hyde Hall ...	4.65	2.13	9	6	...
Steelfield ...	4.82	2.78	9	3	...
Etingdon ...	4.20	1.60	9	9	2.17
Lottery ...	2.70	1.25	8	4	2.01
Falmouth ...	1.03	0.64	8	6	1.81
Florence Hall ...	1.52	1.30	15	3	...
Good Hope ...	2.60	1.40	8	6	...
Unity ...	3.44	1.83	9	5	...
Kent ...	2.58	1.88	8	4	...
Gales Valley ...	...	...	...	...	...
Canaan ...	2.75	1.40	7	5	2.44
Content ...	1.63	1.39	8	3	...
Bellfield ...	1.47	1.30	8	5	..
Guilsbro ...	2.28	1.50	8	9	2.09
Moor Park ...	2.28	1.47	8	5	2.25
Rose Hall ...	1.77	1.52	8	3	...
Running Gut ...	...	...	...	...	...
Cinnamon Hill ...	...	...	...	...	...
Success ...	..	...	...	...	..
Montego Bay ...	2.19	1.15	9	4	2.06
Catherine Hall ...	2.49	1.15	8	5	2.47
Retirement ...	2.52	1.30	9	9	..
King Gate ...	1.78	1.51	2	2	2.94
Round Hill ...	...	...	...	...	...
Blue Hole ...	8.80	3.20	8	7	...
Haughton Court ...	7.79	3.13	7	7	...
Lucea ...	4.83	1.40	5	7	2.16
Green Island, Police St. ...	5.99	3.20	7	10	...
CENTRAL SUB-DIVISION.					
Headworks, Rio Cobre ...	1.68	0.42	25	6	1.63
Linstead ...	1.98	0.80	4	7	1.96
Berkshire Hall ...	1.98	0.94	7	10	2.09
Point Hill ...	3.26	1.40	6	10	3.85
Marlie Hill ..	2.61	0.60	5	7	...
Worthy Park ...	1.28	0.41	5	5	2.05
Croft Hill ...	1.21	0.60	7	3	..
Chapelton ...	1.90	0.64	17	9	1.80
Danks Works ...	1.28	0.48	16	4	1.85
Savoy House ...	1.58	0.46	16	8	1.74
Crooked River ...	...	..	...	...	...
Trout Hall ...	0.57	0.30	23	5	...
Cave Valley ...	...	...	...	...	...
Greenock ...	...	...	...	...	...
Means ...	3.21	...	...	...	...

WEST-CENTRAL DIVISION.	FEBRUARY, 1915.				
	Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Whitney ...	3.19	0.90	7	7	2.84
Mocho, Clarendon ...	2.20	0.80	17	5	...
Baillieston ...	2.75	1.62	7	6	2.99
Brokenhurst ...	1.75	0.60	7	5	...
Christiana ...	2.07	0.61	8	4	2.75
Chudleigh ...	1.61	0.54	24	6	...
Shooter's Hill ...	2.14	1.17	7	9	...
Spitzbergen ...	2.06	1.07	7	5	...
Kendal, Manchester ...	2.25	1.65	7	3	2.59
Marshalls Pen ...	4.46	2.48	24	5	3.90
Mandeville ...	1.37	0.72	7	5	2.87
Carlton, Mandeville ...	1.43	0.56	7	7	2.62
The Hill ...	..	...	..	...	...
Fairfield, Manchester ...	2.72	1.70	7	8	3.11
Ulster Spring ...	4.90	1.50	8	7	2.76
Freeman's Hall ...	2.30	1.30	8	4	...
Albert Town ...	2.38	1.00	8	5	...
Lowe River ...	4.28	2.25	3	5	2.52
Troy ...	4.05	1.20	3	6	2.86
Windsor Pen, Trel. ...	4.68	1.86	9	9	2.36
Medina ...	3.98	1.46	25	5	...
Wallingford ...	2.48	0.65	1	9	...
Balaclava Police Station ...	1.48	0.57	3	5	2.29
Siloah ...	6.57	1.55	4	9	2.37
Appleton Estate ...	...	...	...	...	...
Maggotty ...	4.68	1.50	4	8	2.70
Butlers ..	5.71	2.07	3	8	...
Dromilly Pen ...	4.49	1.80	8	5	...
Spring Vale ...	2.55	1.45	8	2	2.34
Garland ...	...	...	...	...	...
Mocho, Catadupa ...	6.78	1.15	7	11	...
Springfield, St. Elizabeth	7.42	2.43	3	9	...
Chesterfield, St. James ...	11.23	5.20	4	6	...
Catadupa Rly. Station ...	5.44	1.03	4	9	...
Kempshot ...	2.95	1.68	7	7	3.00
Cambridge, St. James ...	3.35	0.95	8	9	...
Ducketts ...	7.56	2.50	4	9	...
New Market, Police St. ...	3.79	1.40	5	4	...
The Bog, New Market ...	3.12	2.00	3	5	...
Kew Park ...	8.05	4.11	4	10	2.72
Knockalva ..	5.96	2.54	4	8	...
Ramble ...	5.14	1.50	4	9	...
Petersville ...	2.49	0.69	9	7	2.91
Darliston ...	4.30	1.70	3	5	3.63
Bluefields ...	3.75	1.16	8	6	4.35
Whithorn ...	4.52	1.30	3	7	3.40
Water Works Pen ...	3.50	1.40	4	7	...
Great Valley, Han. ...	5.30	1.75	2	6	3.18
Prospect Park ...	...	...	...	...	...
Blackheath ...	..	...	..	...	...
Fontabelle, Westm. ...	2.30	1.19	4	7	2.62
Belleisle ...	2.04	1.07	3	4	...
Morgan's Bridge ...	2.06	0.90	8	6	2.43
King's Vale Police St. ...	5.20	2.70	8	6	2.73
Means ...	4.08	...	...	...	...

SOUTHERN DIVISION.	FEBRUARY, 1915.				
	Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	4.39	1.36	9	14	2.74
Elliott Hill ...	4.43	0.76	11	18	...
Pleasant Hill ...	3.87	0.66	10	17	...
East Prospect ...	2.44	1.37	16	11	...
Morant Bay ...	0.94	0.60	16	9	2.03
Easington ...	1.88	1.58	8	2	1.52
Bull Bay ...	2.35	1.25	3	2	0.53
Bellevue ...	...	...	...	...	..
Gordon Town ...	...	...	...	...	...
Hope Gardens ...	1.08	...	...	...	1.19
King's House Gardens ...	0.99	...	...	...	...
Halfway Tree ...	0.57	0.42	8	2	0.88
Lunatic Asylum ...	1.27	0.82	8	5	0.54
Parade Gardens ...	...	...	...	...	...
Upper Elletson Road ...	1.34	0.77	8	3	...
Kingston P. W. Office ...	0.83	0.52	8	3	0.67
Plumb Point L. H. ...	0.77	0.57	8	3	0.72
Clifton Pen ...	0.55	0.35	8	2	...
Quarantine Station ...	0.36	0.24	8	2	...
Spanish Town ...	1.44	0.93	17	5	1.34
Hog Hole, St. Catherine...	2.79	1.40	25	5	1.82
Hartlands ...	2.99	1.12	6	4	1.23
Belmont, Guanaboa Vale	3.91	2.88	6	10	..
Old Harbour ...	2.50	1.88	6	4	1.81
May Pen ...	1.35	0.46	16	8	1.76
Hillside ...	...	...	...	...	...
Moreland ...	...	...	...	...	...
Dunkley's, Vere ...	1.14	0.60	6	5	1.17
Dry River " ...	1.32	0.59	6	5	...
Denbigh ...	0.60	0.40	15	2	1.40
Toll Gate ...	2.18	0.94	16	6	...
Woodleigh ...	0.50	0.50	15	1	...
New Yarmouth ...	0.94	0.47	6	3	1.02
Exeter, Vere ...	1.30	0.64	8	7	0.97
Rhymesbury ...	1.51	0.44	19	7	1.37
Milk River ...	1.20	0.50	6	4	1.64
Clarendon Pk. Ry. St. ...	1.91	0.85	16	6	...
Victoria Town ...	2.42	1.31	7	4	1.91
Hog Hole, S. Manch. ...	4.41	1.03	4	8	...
Stone's Hope ...	3.08	1.55	4	7	2.22
Newport, Manchester ...	1.58	0.31	6	8	2.94
Great Valley, Man. ...	1.62	0.60	7	7	2.48
Alligator Pond ...	1.11	0.72	7	2	1.20
Southfield, St. Elizabeth ...	1.22	0.46	8	5	..
Lititz ...	1.64	0.68	8	5	...
Long Hill ...	...	...	...	...	...
Torrington ...	...	...	...	...	...
Bethlehem, St. Eliz. ...	3.13	1.35	25	6	2.55
Santa Cruz ...	2.41	1.21	7	6	2.48
Pedro Plains Police St. ...	1.06	0.37	25	4	1.43
Mountainside ...	...	...	...	...	...
Black River ...	0.87	0.42	8	5	1.78
Font Hill ...	2.60	2.15	25	3	1.38
Mount Edgecombe ...	2.95	1.81	3	6	2.48
Sweet River ...	2.50	0.50	11	6	2.32
Windsor, Sav.-la-mar ...	5.18	2.64	2	6	2.34
Orchard ...	3.87	1.71	3	7	...
Sav.-la-mar ...	5.14	1.64	5	5	2.00
Meylersfield ...	...	...	...	...	...
Retreat ...	3.81	2.03	5	4	2.36
White Hall ...	...	...	...	...	...
Negril Point L.H ...	5.62	1.86	5	8	1.34
Means ...	2.16	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

—	February.	
	1915.	Average.
	In.	In.
North-Eastern Division ...	6.15	5.29
Northern „ ...	3.21	2.55
West-Central „ ...	4.08	2.76
Southern „ ...	2.16	1.67
The Island ...	3.90	3.07

The rainfall was fairly uniformly distributed over the Island; the heaviest fall was 14.65 at Shrewsbury in Portland; and the smallest 0.36 was at the Quarantine Station near Kingston.

Shocks of Earthquake in February, 1915.

Date.	Standard Time (Approx.)	Intensity.	Notes: where felt, etc.
	hr. min.		
11	5 30 a.m.	II.	Yallahs.
17	3 0 p.m.	I.	Lititz.

It is requested that for the future all communications to the Weather Office may be addressed to the Montego Bay P.O.

MAXWELL HALL,
Government Meteorologist.

Montego Bay P.O.

METEOROLOGICAL OBSERVATIONS. MORANT POINT LIGHT-HOUSE, JAMAICA. MEAN RESULTS FOR THE YEAR 1914.

Month.	Bar. Pressure.		Temperature.						Extremes for the month.			Dewpoint and humidity.				Rain-fall.	Miles of wind per diem.	Wind from and miles per hour.						Clouds : In tenths.						Remarks.
																		7 a.m.		3 p.m.		11 p.m.		Lower.		Middle.		Upper.		
	7 a.m.	3 p.m.	Mean.	7 a.m	3 p.m.	Max.	Min	Range.	Max.	Min.	Range.	7 a.m.		3 p.m										7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p m.	
	Ins.	Ins.	°	°	°	°	°	°	°	°	°	°		°		Ins.			Mls.		Mls.		Mls.						
Jany ..	29.997	29.963	76.7	76.1	79.6	81.7	71.5	10.2	88.0	60.0	28.0	70.5	83	72.2	77	2.52	297	ENE	15	NE b N	14	ENE	15	3.5	1.4	1.3	1.9	2.3	1.3	Fine and dry, two northers during month, 15th-16th and 27th.
Feb. ..	30.021	29.977	77.1	77.0	79.3	81.6	72.7	8.9	87.0	65.0	22.0	72.3	85	72.7	80	0.69	345	ENE	18	ENE	14	...	...	1.5	2.4	.3	.4	3.9	.6	N W gale on 21st-22nd. Fine and dry.
March ..	30.004	29.965	76.5	75.9	79.2	81.2	71.8	9.4	85.0	63.0	22.0	75.4	97	78.2	97	2.30	326	ENE	16	NE b E	14	...	...	2.4	2.7	.3	2.0	3.5	.9	Norther on 2nd. NE gale on 10th-11th.
April ..	29.941	29.846	78.6	78.5	80.9	83.3	73.8	9.5	86.0	66.0	20.0	73.6	83	74.0	79	2.48	256	ENE	15	E b N	11	...	...	2.5	2.2	2.1	2.4	2.2	2.4	Dry.
May ..	29.980	29.942	80.5	80.5	82.5	84.8	76.1	8.7	86.0	67.0	19.0	75.7	85	76.4	82	1.14	300	E b N	19	ENE	16	...	...	2.6	2.1	.7	.8	3.0	1.9	Dry.
June ..	29.982	29.953	81.2	81.0	82.9	85.0	77.9	7.1	86.0	74.0	12.0	77.0	88	77.6	84	3.48	308	E b N	18	E b N	17	...	...	2.5	2.3	1.0	1.3	2.3	2.4	E gale on 7th.
July ..	30.004	29.977	82.1	81.8	84.1	85.9	78.8	7.1	87.0	75.0	12.0	76.8	84	78.1	82	1.09	384	E ½ N	21	E b N	19	...	..	3.2	1.8	.5	1.3	2.0	1.2	
Aug. ..	29.980	29.952	83.0	82.4	85.0	86.8	79.7	7.1	88.0	76.0	12.0	77.8	87	78.4	81	0.43	331	E ½ N	17	E b N	16	..	...	3.2	1.5	1.3	1.5	2.2	1.4	Earthquake on 3rd, sheet lightning nearly every night.
Sept. ..	29.936	29.901	82.8	82.2	85.1	86.8	79.1	7.7	88.0	71.5	16.5	74.6	78	74.9	72	1.91	295	ENE	16	E b N	13	...	...	2.2	2.0	1.7	1.3	2.6	1.9	Distant lightning at night in NE and E.
Oct. ..	29.931	29.871	81.2	80.4	84.0	86.2	76.6	9.6	88.5	71.0	17.5	74.5	82	74.6	73	2.76	216	N E b E	10	E	9	...	...	3.3	.6	1.5	3.3	.7	1.8	Distant lightning at night in NE and E.
Nov. ..	29.949	29.864	81.8	79.3	82.0	84.2	73.9	10.3	87.0	68.0	19.0	74.9	87	75.8	81	17.13	274	N E b N	16	NNE	14	...	...	3.9	1.0	1.0	3.8	2.0	1.0	Flood rains on 13th, 12 inches falling in about 8 hours, Norther on 21st and 22nd.
Dec ..	29.958	29.910	79.8	80.0	81.7	83.9	75.5	8.4	86.0	70.0	16.0	74.3	82	74.5	79	5.47	310	NE	17	ENE	15	...	...	3.3	1.3	.3	3.1	1.1	.6	Rain sqaulls chief feature of this month.
Total ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	41.40	..	..	..	..	..	..	...	..	..	..	..	..	..	Whole year dry until middle of November and December.
Means ..	29.971	29.927	80.1	79.6	82.2	84.3	75.6	8.7	86.9	68.9	18.0	74.8	85	75.6	81	..	304	N E b E	17	ENE	14	...	...	2.8	1.8	1.0	1.8	2.3	1.5	

M. H.

No. 440.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

MARCH, 1915.

The Bar. pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.949	29.908	76.1	80.4	82.8	70.6	12.1	86.5	19	64.0	15	22.5
Kingston ..	24	29.934	29.885	72.5	84.4	87.4	70.5	16.9	89.7	26	67.3	10*	22.4
Negril Point Light House ..	33	29.943	29.898	73.7	81.3	83.4	70.2	13.2	86.3	30	65.2	12	21.1
Castleton Gardens ..	496	..	..	61.0	84.0	88.0	..	..	91	16*	..	..	..
Hope Gardens† ..	668	29.947	29.852	69.3	84.5	87.4	66.3	21.1	92	30	61	9	31
Stony Hill Indus. School ..	1,400	..	..	67.7	79.6	83.1	64.1	19.0	88	30	62	10*	26
Hill Gardens ..	4,900	25.277	25.233	61.6	64.5	68.7	57.3	11.4	74	31	57	20*	17

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction from and miles per hour.				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	71.4	86	72.5	77	1.93	249	Var.	13	E.N.E.	15	2.7	1.0	1.3	2.9	1.2	1 0
Kingston ..	24	66.8	82	71.5	65	0.58	183	NNE.	5	S.E.	13	1.2	0.8	1.7	2.5	2.6	0.4
Negril Point Light House‡ ..	33	67.3	80	69.7	63	1.63	239	E.	8	NNE.	13	2.9	1.7	1.8	3.5	1 8	0.2
Castleton Gardens ..	496	64.1	93	70.0	63	2.80	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	62.4	78	71.1	63	0.41	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	63.4	86	68.7	69	1.32	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	55.6	81	55.0	70	1.24	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar read at 9 a.m. and 3 p.m.

‡ Negril Point Light House Wind 11 p.m. N.E. 10.1

Plumb Point Light House { Average No. of Miles of wind per diem 235; Greatest on the 24th 502; Least on the 16th 123

THE RAINFALL.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	MARCH, 1915. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	1.76	0.72	26	4	3.26
Spring Valley, Portland ...	2.18	0.78	26	6	.
Bath ...	0.97	0.30	8	8	4.57
Boston ...	3.35	0.95	23	7	5.10
Moore Town ...	4.07	1.00	29	8	10.97
Port Antonio ...	9.95	3.34	29	6	4.90
Fellowship ...	5.59	2.03	29	8	8.09
Windsor, Portland ...	...	...	...	...	...
Johnson River Bridge ...	0.99	0.46	27	7	2.59
Shrewsbury ...	3.92	1.52	29	4	11.03
Cedar Valley, St. Thos. ...	1.65	0.75	27	4	3.30
Hope Bay ...	7.00	4.95	29	8	...
Moy Hall, St. Thos. ...	1.40	0.50	28	5	3.01
Brooklodge ...	0.75	0.27	28	5	...
Lennox ...	11.90	7.00	29	7	...
Farm Hill ...	0.55	0.30	28	2	5.01
Hill Gardens ...	1.24	...	...	...	5.19
Buff Bay ...	9.68	6.50	29	7	5.79
Vinery ...	11.63	6.88	29	9	..
Windsor Castle, Port. ...	7.74	3.90	29	6	...
Greenvale, Portland ...	2.21	1.00	24	9	...
Mt. Holstein ...	0.88	0.37	23	9	9.53
Irish Town ..	0.00	...	...	...	...
Rose Hill ...	0.00	...	...	...	...
Hardware Gap ...	1.00	..	...	...	4.50
Stony Hill Ind. School ...	1.32	1.02	23	2	2.99
Castleton Gardens ...	2.80	..	...	...	4.93
Lawrence Tavern ...	0.00	...	...	...	2.69
Cedar Valley, Red Hills ...	...	...	...	...	...
Carew Castle ...	0.36	0.14	23	4	3.92
Agualta Vale ...	5.95	4.40	29	5	...
Water Valley ...	6.39	3.75	29	7	5.69
Albany, Ry. Station ..	5.25	2.72	29	6	...
Platfield ...	1.13	0.78	23	3	...
Richmond, St. Mary ..	2.87	2.64	29	3	3.75
Hampstead, St. Mary ...	3.84	1.88	29	11	...
Troja ...	...	...	...	...	...
Lucky Hill ...	5.36	3.30	29	7	...
Rio Hoe ...	3.17	0.95	21	7	3.64
Unity Valley ...	2.98	0.93	21	7	3.64
Moneague ...	3.34	1.65	21	6	3.03
Claremont ...	0.81	0.33	27	3	3.43
Albion, St. Ann ...	1.33	0.40	29	7	3.61
Averham Park ...	1.51	0.48	20	5	3.81
Means ...	2.80	...	..	...	...

NORTHERN DIVISION.	MARCH, 1915. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	5.01	1.67	27	12	3.19
Ocho Rios ...	4.57	1.42	29	4	3.54
Bogue, Ocho Rios ...	6.03	2.00	23	7	...
Rockfield ...	3.76	1.32	23	5	..
Drax Hall ...	7.50	4.10	27	7	3.21
Liberty Hill ...	7.30	2.25	29	6	...
St. Ann's Bay ...	10.59	4.60	27	11	2.40
Seville ...	10.28	3.80	27	7	3.07
Richmond Estate ...	...	...	...	...	...
Llandovery ...	11.52	5.07	27	6	2.80
Runaway Bay ...	6.70	3.30	27	6	...
Brown's Town ...	5.43	3.75	23	4	2.99
Alexandria ...	2.00	1.05	18	4	...
Chewmagna, St. Ann ...	4.25	2.00	23	5	3.37
Home Castle ...	6.45	3.15	23	6	2.56
Richmond Pen ...	4.80	3.30	23	3	2.42
Mahogany Hall ...	5.12	2.18	27	3	2.57
Barnstaple ...	4.22	1.75	22	4	...
Brampton Bryan ...	...	...	...	...	...
Bryan Castle ...	8.42	4.50	27	5	1.88
Braco ...	7.25	4.50	27	4	1.62
Arcadia ...	7.16	3.80	27	5	1.84
Lancaster ...	9.07	4.25	27	6	1.92
Harmony Hall ...	8.54	5.25	27	8	1.74
Vale Royal ...	7.16	2.19	8	7	2.28
Colchis Pen ...	2.22	0.92	23	4	2.02
Swanswick ...	3.92	2.15	27	5	...
Georgia ...	...	...	..	...	...
Long Pond ...	...	...	...	...	...
Hyde Hall ...	4.83	3.70	27	6	...
Steelfield ...	...	...	...	...	...
Etingdon ...	3.03	1.50	27	4	1.77
Lottery ...	6.80	5.70	27	4	2.00
Falmouth ...	2.62	1.86	27	5	1.76
Florence Hall ...	3.76	3.00	27	2	...
Good Hope ...	5.05	4.20	27	3	...
Unity ...	5.64	3.71	27	6	...
Kent ...	...	...	...	...	...
Gales Valley ...	...	...	...	...	...
Canaan ...	5.95	3.62	27	5	2.23
Content ...	...	...	...	...	...
Bellfield ...	4.22	2.67	27	4	..
Guilsbro ...	7.55	3.30	27	10	1.77
Moor Park ...	4.90	3.00	27	7	1.88
Rose Hall ...	..	...	...	...	...
Running Gut ...	...	...	...	...	...
Cinnamon Hill ...	...	...	...	...	...
Success ...	..	...	...	...	..
Montego Bay ...	3.67	2.50	27	7	1.58
Catherine Hall ...	3.47	2.45	27	7	1.84
Retirement ...	5.45	3.71	27	9	..
King Gate ...	4.50	3.89	27	5	3.18
Round Hill ...	...	...	...	...	...
Blue Hole ...	5.56	4.58	27	4	..
Haughton Court ...	2.15	2.05	27	4	...
Lucea ...	4.04	2.90	27	5	2.33
Green Island, Police St. ...	1.62	0.80	27	6	...
CENTRAL SUB-DIVISION.					
Headworks, Rio Cobre ...	0.63	0.26	26	4	2.84
Linstead ...	1.00	0.70	23	2	3.06
Berkshire Hall ...	1.19	0.38	21	6	...
Point Hill ...	1.78	1.00	23	8	5.25
Marlie Hill ..	2.17	1.31	20	4	...
Worthy Park ...	2.42	1.45	20	5	2.84
Croft Hill ...	1.35	0.59	20	5	..
Chapelton ...	3.09	1.71	19	7	2.70
Danks Works ...	1.75	1.01	19	6	3.26
Savoy House ...	2.21	0.76	23	7	4.07
Crooked River ...	...	..	...	...	...
Trout Hall ...	2.10	0.91	27	6	...
Cave Valley ...	1.75	0.80	20	5	2.90
...					
Means ...	5.18	...	...	...	...

WEST-CENTRAL DIVISION.	MARCH, 1915.				
	Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Whitney ...	..	...	...	...	...
Mocho, Clarendon ...	1.10	0.90	27	2	...
Baillieston ...	3.32	1.50	27	9	4.64
Brokenhurst ...	3.20	2.80	27	3	2.70
Christiana ...	2.78	0.59	27	8	4.06
Chudleigh ...	3.66	1.41	21	9	...
Shooter's Hill ...	2.68	1.69	27	7	...
Spitzbergen ...	3.64	1.38	21	7	...
Kendal, Manchester ...	4.03	2.65	27	5	3.44
Marshalls Pen ...	4.79	1.45	27	6	3.85
Mandeville ...	3.25	2.02	27	6	4.28
Carlton, Mandeville ...	3.77	2.88	27	7	...
The Hill ...	2.06	1.18	27	6	...
Fairfield, Manchester ...	2.08	0.88	27	6	3.84
Ulster Spring ...	5.35	1.30	19	7	3.40
Freeman's Hall ...	3.57	1.15	21	6	...
Albert Town ...	2.64	0.78	23	8	...
Lowe River ...	9.80	3.25	24	7	5.54
Troy ...	1.25	0.95	20	2	6.17
Windsor Pen, Trel. ...	4.23	2.25	27	6	3.07
Medina ..	4.22	1.50	21	8	...
Wallingford ...	3.58	0.91	27	7	...
Balaclava Police Station ...	3.40	1.25	23	8	4.74
Siloah ...	1.15	0.70	27	3	5.68
Appleton Estate ...	...	...	...	...	...
Maggotty ...	2.90	1.40	27	4	5.80
Butlers ..	...	...	...	...	...
Dromilly Pen ...	5.34	3.70	27	3	...
Spring Vale ...	5.35	3.00	27	6	2.92
Garland ...	...	...	...	...	...
Mocho, Catadupa ...	1.56	0.85	21	4	...
Springfield, St. Elizabeth	2.09	1.50	27	4	...
Chesterfield, St. James ...	...	...	...	...	...
Catadupa Rly. Station ...	2.66	1.20	27	4	...
Kempshot ...	7.62	3.92	27	8	3.00
Cambridge, St. James ...	4.99	2.70	27	5	...
Ducketts ...	...	...	...	...	...
New Market, Police St. ...	2.65	1.20	27	4	...
The Bog, New Market ...	2.71	1.65	27	4	...
Kew Park ...	3.48	2.63	27	4	4.10
Knockalva ..	3.14	2.58	27	6	...
Ramble ...	4.21	...	...	4	...
Petersville ...	1.85	1.30	27	3	5.18
Darliston ...	1.76	1.44	27	4	6.54
Bluefields ...	1.97	0.70	27	4	9.07
Whithorn ...	2.45	1.50	27	5	5.87
Water Works Pen ...	2.32	1.75	27	4	...
Great Valley, Han. ...	...	...	..	...	..
Prospect Park ...	...	...	...	...	...
Blackheath ...	1.72	0.62	...	3	...
Fontabelle, Westm. ...	2.62	1.06	27	3	3.94
Belleisle ...	2.52	1.30	27	3	3.38
Morgan's Bridge ...	2.81	1.30	27	5	4.75
King's Vale Police St. ...	...	...	...	...	...
Means ...	3.50	...	...	...	...

SOUTHERN DIVISION.	MARCH, 1915.				
	Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	1.93	0.70	29	7	2.11
Elliott Hill ...	0.88	0.37	27	6	...
Pleasant Hill ...	0.92	0.34	26	6	...
East Prospect ...	0.70	0.52	25	3	...
Morant Bay ...	0.50	0.26	8	3	1.79
Easington ...	0.00	...	...	...	2.94
Bull Bay ...	0.00	...	...	...	0.34
Gordon Town ...	0.00	...	...	...	1.54
Hope Gardens ...	0.41	...	...	...	1.90
King's House Gardens ...	0.72	...	...	...	1.26
Halfway Tree ...	0.79	0.51	26	2	1.06
Lunatic Asylum ...	0.41	0.21	17	4	0.97
Upper Elletson Road ...	0.59	0.25	17	4	...
Kingston P. W. Office ..	0.58	0.28	17	5	1.05
Plumb Point L. H. ...	0.62	0.26	27	4	0.91
Clifton Pen ...	0.55	0.30	8	3	...
Quarantine Station ...	0.73	0.30	28	5	...
Spanish Town ...	0.42	0.19	19	4	2.10
Hog Hole, St. Catherine...	0.50	0.24	19	3	2.12
Hartlands ...	0.81	0.48	8	3	1.75
Belmont, Guanaboa Vale	0.86	0.26	26	6	..
Old Harbour ...	2.00	0.90	8	4	2.20
May Pen ...	1.29	1.00	27	4	2.01
Hillside ...	...	...	...	...	...
Moreland ...	...	...	...	...	...
Dunkley's, Vere ...	1.55	0.90	17	5	1.49
Dry River " ...	1.58	0.90	27	5	...
Denbigh ...	1.20	0.90	27	2	2.06
Toll Gate ...	2.08	1.84	27	3	...
Woodleigh ...	1.14	0.84	27	2	...
New Yarmouth ...	1.25	0.86	27	3	1.26
Exeter, Vere ...	0.84	0.62	27	2	...
Rhymesbury ...	3.70	1.27	27	12	2.11
Milk River ...	1.66	1.06	27	3	1.66
Clarendon Pk. Ry. St. ...	...	...	...	...	...
Victoria Town ...	2.18	1.85	27	2	2.14
Hog Hole, S. Manch. ...	3.94	3.00	27	4	...
Stone's Hope ...	2.89	2.38	27	2	2.64
Newport, Manchester ...	2.20	1.73	27	5	3.03
Great Valley, Man. ...	3.83	3.00	27	4	2.23
Alligator Pond ...	4.05	2.93	27	3	1.73
Southfield, St. Elizabeth ...	3.04	2.03	27	6	..
Lititz ...	1.79	1.25	27	4	...
Long Hill ...	...	...	...	...	...
Torrington ...	1.55	1.35	27	2	3.47
Bethlehem, St. Eliz. ...	2.02	0.90	27	6	4.25
Santa Cruz ...	1.85	0.66	18	3	4.26
Pedro Plains Police St. ...	1.89	1.36	27	5	...
Mountainside ...	...	...	...	...	...
Black River ...	0.85	0.70	27	5	2.59
Font Hill ...	2.15	1.75	27	4	4.09
Mount Edgecombe ...	1.54	1.50	27	3	4.10
Sweet River ...	1.62	0.97	27	3	3.54
Windsor, Sav.-la-mar ...	1.43	0.65	27	4	2.90
Orchard ...	1.15	0.60	27	4	...
Sav.-la-mar ...	1.50	0.70	27	5	2.63
Meylersfield ...	1.43	1.18	27	2	...
Little London ...	0.80	0.37	27	3	...
Retreat ...	1.93	0.73	27	3	3.28
White Hall ...	...	...	...	...	...
Negril Point L.H ...	1.63	1.01	27	4	2.34
Means ...	1.45	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

	March.	
	1915.	Average.
	In.	In.
North-Eastern Division ...	2.80	4.61
Northern „ ...	5.18	2.36
West-Central „ ...	3.50	4.18
Southern „ ...	1.45	2.22
The Island ...	3.23	3.34

The heaviest rainfall 11.90 inches was recorded at Lennox, in the north-eastern division, many places in the southern division had no rain.

The heavy rainfall in the northern division was chiefly due to a "norther" on the 27th. Most places on the north-side recorded over 4 inches of rain while farther inland and on the south side of the island very little rain fell.

Shocks of Earthquake in March, 1915.

Date.	Standard Time (Approx.)	Intensity.	Notes: where felt, etc.
	hr. min.		
4	During night.	I.	Mt. Holstein: N. & S. 0.006
10	Midnight.	I.	do. Two shocks: NE. & SW. 0.005 and NW. & SE. 0.003
31	1 a.m.		do. NE. & SW. 8.009 preceded by a long rumble.

It is requested that for the future all communications to the Weather Office may be addressed to the Montego Bay P.O.

Maxwell Hall,
Government Meteorologist.

Montego Bay P.O.

THE JAMAICA RAINFALL AND ITS PERIOD OF FIVE AND A HALF YEARS.

In the year 1880 several rainfall registers had been reduced, and it was then found that there were four divisions in the Island showing certain natural characteristics,* which had been noticed two hundred year previously.

There were in 1880 comparatively few registers to deal with, and the rainfall for each year was compiled from all the current registers available; this work was carried back to 1870, when there were very few registers indeed, and on to 1899 when the Weather Service was disestablished. When the service was recommenced in 1907 it was found necessary to take the annual rainfall from 1900 onwards from the monthly results published in the Weather Reports which had been continued during that interval: these monthly results are based on only the "average stations," where registers have been kept for many years; and this method has been continued to the present time.

This break in the method of computing the annual rainfall has had probably but small effect, the general principle being that no matter how the stations were changed among the old established properties in any division, the registers would still give the average rainfall in that division; and then the mean of the four divisions would give the rainfall for the Island.

But it so happens that there has been a considerable change in agriculture; and besides the old established properties, plantations for the cultivation of bananas have been developed in districts where there is a larger rainfall, which has of course been registered; and the Public Works Department has kept gauges in the more central districts and in certain places where the rainfall is exceptionally heavy. And as many of these stations have been so long continued as to become "average stations," it follows that the recorded Island rainfall must have a tendency to rise.

In consequence therefore of all these changes it seems advisable to make a strict investigation into the Island rainfall based on those places where the registration has been complete and continuous from January 1870 to December 1914, that is to say for the past 45 years.

There are as many as seven places where perfect registers have been kept for this long period, namely,

Albion, in the middle of the parish of St. Ann.
Drax Hall, near St. Ann's Bay.
Braco, in the parish of Trelawny.
Harmony Hall do.
Vale Royal do.
Lottery do.
Windsor, near Savanna-la-Mar

We are greatly indebted to the owners of properties and managers of estates, who have kept these valuable records; they have been of great service up to the present time, and they will increase in value as time goes on.

But it will be seen that these places represent only four small localities, and we require a more general representation of the Island; it therefore becomes necessary to consider the registers at other places, and to supply any missing details in these registers† when this can be done without fear of any sensible error in the final result.

A number of rain gauges were formerly distributed by the Public Works Department so that registration should commence in January 1870; but at the Plumb Point and Morant Point Light-houses registration did not commence until April and May that year; at the Cinchona Plantation, now called the Hill Gardens, registration did not commence until January 1871; and at Kingston, while registration was continued from January 1 to December 31, 1870, it was discontinued during the following year, and recommence in January 1872. In this case there is reason to suppose that the gauge was moved from Kingston to Halfway Tree, where a perfect record was kept from January to December 1871, when it suddenly stopped, and was not recommenced until 20 years later.

These four stations are very important; not only have the registers been carefully kept for 44 or 45 years, but they are likely to be long continued in the future. With regard to the two Light-houses, as the rainfall was quite normal in 1870 until May when heavy rains fell, we can supply the missing months by means of their averages without fear of any sensible error. With regard to Kingston, in 1871 the rainfall at Halfway Tree was 32.52, and at Plumb Point it was 18.41; so that Kingston must have been between the two, and if we take the mean, 25.46, we may be wrong by 2 or 3 inches. With regard to the Cinchona Plantation and the 1870 rainfall, a register was kept for some years at the Military station at Newcastle, not far from the plantation and at much the same elevation; and as the rainfall at Newcastle was 139.64 for that year, by adopting this amount for the Plantation we shall no doubt be liable to an error of several inches, but proportionally, probably not more so than in the case of Kingston during the following year.

With regard to three other estates in Trelawny, Brampton Bryan and Bryan Castle, both commenced in April 1870, their registers are perfect since that time, and they can be treated in the same way as the Light-houses. And as for Lancaster it was only a blank in the register for May 1906 which kept it out of the first list; the place is close to Harmony Hall, and the missing detail can be at once supplied.

But unfortunately there is no place in the West-central division where a continuous or nearly continuous register has been kept from 1870 onwards; a register was indeed kept at Mandeville from 1870 to 1879, then it was discontinued, and it was not recommenced until 1892. It was said that the rainfall in the West-central districts was abundant and regular so that there was no need of registration. However, Cave Valley, almost in the middle of the Island, has a perfectly continuous register since January 1871; and although it can hardly be said to represent the West-central division, an effort must be made to include it as representing an important locality near the east end of that division. The Chapelton rainfall for October 1870 is clearly wrong; 10 inches have to be added; this makes the total for that year 71.78 and not 61.78 as stated in W. R. No. 33; and at Albion it was 84.60; and by taking the

* See an article in the *Handbook of Jamaica*, 1881, p. 92, by the present writer.
† With references to this article only: the registers of course remain unaltered.

mean 78.19 as the rainfall at Cave Valley for 1870 we are liable to the same proportionate error as for Kingston and the Cinchona Plantation.

By means of these 15 registers we can make a systematic and detailed inquiry into the rainfall during any interval of time during the past 45 years; but we have first to consider the period of five and a half years marked by droughts more or less partial, and more or less severe.

In the following list of droughts the first lasted from October 1768 to May 1770, and is said by Long in his *History of Jamaica* to have been the severest ever remembered in the Island; the fifth is taken from our early records; and the details of the rest will be found among the monthly Weather Reports, No. 33 being retrospective.

Droughts in Jamaica.

Year.	Intervals.	No. of periods.
	yrs.	
1769	17	3
1786	54	10
1840	5	1
1845	24	4
1869	3	1
1872	8	1
1880	5	1
1885	5	1
1890	6	1
1896	7	1
1903	4	1
1907	7	1
1914		

There have thus been 26 periods in the 145 years, which gives an average period of 5.6 years, or a little more than five and a half years. These droughts all follow a Solar maximum or minimum by about two years, and the details were given by me in *The Rainfall of Jamaica*, published in 1911 by the Government of Jamaica; and most of the irregularities in the above list are due to the Solar cycle itself.

We have now to search for any moderately long period which may exist; and to do this we shall group the years together in fives; that is to say, in each register we shall tabulate the average annual rainfall for five years, from 1870 to 1874 inclusive, 1875 to 1879 inclusive, and so on; and it is to be expected that this process will remove or greatly reduce any error introduced by completing the imperfect registers as described above:—

I. Rainfall at each place for each group of five years.

No.	Place.	1 1870 to 1874.	2 1875 to 1879.	3 1880 to 1884.	4 1885 to 1889.	5 1890 to 1894.	6 1895 to 1899.	7 1900 to 1904.	8 1905 to 1909.	9 1910 to 1914.
		in.	in.	in.	in.	in.	in.	in.	in.	in.
1	Hill Gardens ..	104.38	142.50	78.57	107.97	105.30	111.77	99.85	108.33	89.42
2	Albion. ..	78.00	78.40	63.75	87.69	83.11	76.70	81.18	74.09	72.90
3	Drax Hall ..	67.91	66.40	60.32	73.79	68.80	55.60	76.85	61.74	52.31
4	Brampton Bryan ..	55.02	50.98	34.57	41.24	39.41	41.02	55.07	47.57	46.06
5	Bryan Castle ..	51.49	49.44	29.75	41.04	40.78	55.53	59.38	48.60	43.78
6	Braco ..	48.39	51.19	34.50	51.19	44.28	38.60	39.61	39.74	37.66
7	Lancaster ..	50.94	53.29	38.10	55.76	50.23	44.21	45.98	46.51	41.72
8	Harmony Hall ..	43.29	46.60	30.91	49.43	47.40	43.78	44.29	41.79	42.20
9	Vale Royal ..	60.93	61.53	44.50	64.44	56.37	60.40	57.23	56.47	56.24
10	Lottery ..	52.88	47.34	41.37	55.22	47.51	48.68	46.91	45.27	48.40
11	Cave Valley ..	67.59	77.59	55.38	80.40	62.12	62.16	62.08	64.38	71.04
12	Morant Pt. L. H. ..	72.06	82.51	65.82	73.67	66.04	65.55	69.95	77.57	56.04
13	Kingston ..	34.98	47.84	25.28	40.34	27.76	32.32	32.51	40.13	18.85
14	Plumb Point L. H. ..	33.48	45.56	25.25	43.05	27.30	31.05	28.75	36.71	18.08
15	Windsor ..	73.84	63.87	62.23	54.77	61.44	66.75	58.54	74.60	64.87

Now it is evident that some of these places should be combined together so as to obtain a distribution of the places or localities as uniform as possible; Nos. 4 to 10 inclusive should be combined for the locality we may call "Trelawny;" and Nos. 13 and 14 should be combined for the locality we may call "Kingston Harbour."

II. Rainfall at each place or locality for each group of five years.

Place or locality.	1	2	3	4	5	6	7	8	9	Average.
	1870 to 1874.	1875 to 1879.	1880 to 1884.	1885 to 1889.	1890 to 1894.	1895 to 1899.	1900 to 1904.	1905 to 1909.	1910 to 1914	
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Hill Gardens ..	104.38	142.50	78.57	107.97	105.30	111.77	99.85	108.33	89.42	105.34
Albion ..	78.00	78.40	63.75	87.69	83.11	76.70	81.18	74.09	72.90	77.31
Drax Hall ..	67.91	66.40	60.32	73.79	68.80	55.60	76.85	61.74	52.31	64.86
Trelawny ..	51.85	51.48	36.24	51.19	46.57	47.46	49.78	46.56	44.87	47.33
Cave Valley ..	67.59	77.59	55.38	80.40	62.12	62.16	62.08	64.38	71.04	66.97
Morant Point L. H. ..	72.06	82.51	65.82	73.67	66.04	65.55	69.95	77.57	56.04	69.91
Kingston Harbour ..	34.23	46.70	25.26	41.70	27.53	31.68	30.63	38.42	18.46	32.73
Windsor ..	73.84	63.87	62.23	54.77	61.44	66.75	58.54	74.60	64.87	64.54
Average ..	68.73	76.18	55.95	71.40	65.11	64.71	66.11	68.21	58.74	66.12

Looking along the lowest line we see that the third group has the smallest rainfall, and that the second and fourth groups have the largest and next largest rainfall during the 45 years; that is to say, the principal minimum falls between the two principal maxima; and as the other groups have nearly the average until we come to the ninth when another minimum occurs, it follows that there is no moderately long period such as we are searching for, with a considerable but gradual rise and fall as time flows on. And if it were suggested that there may be a strongly marked minimum every 30 years, the list of the Droughts in Jamaica given above does not show it.

Now the two principal maxima were apparently due to the flood rains of October 1879 and June 1886; and it appears that our groups of five years have not been able to smooth down such irregularities; and it will be as well to increase their length, which can easily be done by taking them to be 15 years.

III. Rainfall for each group of fifteen years.

Place or locality.	1870 to 1884	1885 to 1899.	1900 to 1914.	Average.
	in.	in.	in.	in.
Hill Gardens	108.48	108.35	99.20	105.34
Albion	73.38	82.50	76.06	77.31
Drax Hall	64.88	66.06	63.63	64.86
Trelawny	46.52	48.41	47.07	47.33
Cave Valley	66.85	68.23	65.83	66.97
Morant Pt. L. H.	73.46	68.42	67.85	69.91
Kingston Harbour	35.40	33.63	29.17	32.73
Windsor	66.64	60.99	66.00	64.54
Average	66.95	67.07	64.35	66.12

In this table, Albion, Drax Hall, Trelawny, and Cave Valley, agree in making the second group somewhat larger than the first and third; while Windsor gives exactly opposite results.

Morant Point and Kingston Harbour show a small continual fall from the first to the third; and Hill Gardens, while steady in the first and second, shows a marked fall in the third.

Consequently, even if we had found a "period" from Table II, it would only have been an average from conflicting districts, and could have had no real physical basis such as we have claimed for the short period of five and a half years.

With reference to the lowest line in Table III, there is a marked drop in the third group; and this is due to the strongly marked drop in the ninth group in Table II. If we were to arrange the groups in that table in the following manner:—

		in.
Groups	1, 2, 3—1870 to 1884—	66.95
"	4, 5, 6—1885 to 1899—	67.07
"	7, 8—1900 to 1909—	67.16

we may say that there has been perfect uniformity in the rainfall for the 40 years from 1870 to 1909, but that the drought of recent years has been so great that even groups of 15 years cannot smooth it down, coming as it does at the end of the present series.

We may here pause awhile; in another article there will be much to consider with regard to certain spells of long continued dry or wet weather at different places which do not affect the Island generally, as shown in Table I; their importance to agriculture can hardly be over-estimated.

And it will be as well to collect all the information we have before 1870; for instance Albion, Windsor, and Bradfield, all commenced in July 1865; and the latter may be said to be continued by the present Claremont register. A register was kept at Moreland from 1851 to 1880, and it may similarly be said to be continued by the register at Moneymusk. Denbigh began in 1862, and is continued to the present time. And although none of these registers are perfect, yet they are very valuable as the earliest records we have, and demand careful attention.

MAXWELL HALL,
Government Meteorologist.

April 14th, 1910.

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JAMAICA

WEATHER REPORT

FOR THE MONTH OF

APRIL, 1915.

The Bar. pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.915	29.887	76.8	79.1	81.7	71.5	10.2	86.0	2	62.0	15	24.0
Kingston ..	24	29.895	29.858	73.7	83.1	86.6	70.7	15.9	90.4	7	67.1	30	23.3
Negril Point Light House ..	33	29.911	29.868	74.9	81.8	84.3	70.3	14.0	89.3	20	64.6	15	24.7
Castleton Gardens ..	496	..	..	68.8	79.4	84.6	65.3	19.3	91	1	59	30	32
Hope Gardens† ..	668	29.854	29.817	72.1	84.6	86.1	66.6	19.5	91	1	63	4*	28
Stony Hill Indus. School ..	1,400	..	..	68.8	77.8	81.8	64.3	17.5	87	1	63	7*	24
Hill Gardens ..	4,900	25.228	25.184	61.6	63.2	67.5	54.2	13.3	71	6	51	5*	20

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction from and miles per hour.				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	71.4	83	72.5	81	10.92	340	NNE.	16.0	N.E. by N.	16.6	3.3	0.7	1.4	4.9	0.7	0.7
Kingston ..	24	67.3	80	70.4	66	5.08	190	N.	6.2	S.E.	10.9	1.1	1.3	2.0	2.9	2.0	1.9
Negril Point Light House‡ ..	33	66.9	76	68.7	65	3.56	289	ENE.	10.5	NNE.	13.9	2.6	1.6	2.0	2.8	3.6	1.0
Castleton Gardens ..	496	65.1	87	63.6	72	7.41	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	65.1	79	63.7	53	6.31	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus School ..	1,400	66.2	91	67.5	70	15.35	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	55.6	81	59.7	90	6.42	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.

‡ Negril Point Light House. Wind 11 p.m. N.E. 11.7

Plumb Point Light House { Average No. of Miles of wind per diem 233
Greatest on the 4th 620
Least on the 17th 105

THE RAINFALL.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	APRIL, 1915. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	30.28	9.68	25	14	5.21
Spring Valley, Portland ...	32.92	8.40	23	16	.
Bath ...	21.26	7.95	26	12	5.65
Boston ...	16.39	5.05	25	10	5.68
Moore Town ...	25.61	5.00	24	16	9.77
Port Antonio ...	22.55	4.40	21	17	6.27
Fellowship ...	26.04	5.00	22	21	9.24
Windsor, Portland ...	..	...	...	...	...
Johnson River Bridge ...	14.43	4.82	26	13	4.38
Shrewsbury ...	26.36	6.00	23	14	7.60
Cedar Valley, St. Thos. ...	8.67	2.00	24	9	3.94
*Hope Bay ...	40.80	21.00	22	18	...
Moy Hall, St. Thos. ...	6.69	1.88	24	9	3.71
Brooklodge ...	5.56	1.60	24	12	..
Lennox ...	35.20	18.80	22	16	...
Farm Hill ...	5.72	1.71	26	9	5.01
Hill Gardens ...	6.42	...	...	...	6.09
Buff Bay ...	29.54	12.40	22	15	5.73
Vinery ...	21.28	8.13	22	15	..
Windsor Castle, Port. ...	21.13	11.17	22	10	...
Greenvale, Portland ...	14.91	2.73	23	17	...
Mt. Holstein ...	9.37	1.40	23	23	6.00
Irish Town ...	5.64	2.00	14	6	1.11
Rose Hill ...	8.07	1.38	23	11	...
Hardware Gap ...	10.00	..	...	...	5.86
Stony Hill Ind. School ...	15.35	2.90	14	13	5.24
Castleton Gardens ...	7.41	..	...	...	6.80
Lawrence Tavern ...	6.44	1.85	28	7	2.24
Cedar Valley, Red Hills ...	...	...	...	...	...
Carew Castle ...	10.16	2.00	28	12	5.05
Agualta Vale ...	15.88	8.28	22	15	...
Water Valley ...	20.12	8.15	22	16	4.78
Albany, Ry. Station ..	...	...	...	...	...
Platfield ...	3.62	1.20	24	12	...
Richmond, St. Mary ...	8.10	2.20	28	7	4.54
Hampstead, St. Mary ...	19.61	9.32	22	14	...
Troja ...	...	...	...	...	...
Guy's Hill ...	12.51	6.20	28	13	...
Lucky Hill ...	12.98	4.53	24	12	4.89
Rio Hoe ...	3.36	1.25	24	8	4.38
Unity Valley ...	3.86	1.62	24	14	4.61
Moneague ...	2.83	1.25	24	10	4.04
Claremont ...	...	...	...	...	...
Albion, St. Ann ...	3.55	1.93	24	12	4.38
Averham Park ...	3.85	1.50	24	7	4.73
Means ...	13.43	...	...	...	...

NORTHERN DIVISION.	APRIL, 1915. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	14.39	4.15	22	13	3.88
Ocho Rios ...	17.73	7.78	22	5	2.83
Bogue, Ocho Rios ...	19.92	8.15	22	6	...
Rockfield ...	12.47	4.15	22	15	..
Drax Hall ...	15.60	5.20	22	9	3.21
Liberty Hill ...	15.52	6.70	22	10	...
St. Ann's Bay ...	13.37	4.84	25	10	3.06
Seville ...	12.04	3.60	22	7	2.79
Richmond Estate ...	...	...	...	...	3.88
Llandovery ...	11.30	4.18	22	4	3.39
Runaway Bay ...	6.20	3.00	22	5	...
Brown's Town ...	6.54	2.30	27	7	3.28
Alexandria ...	2.95	1.65	24	5	...
Chewmagna, St. Ann ...	7.02	3.65	11	9	2.87
Home Castle ...	6.87	2.15	25	8	3.23
Richmond Pen ...	7.70	1.85	11	7	3.47
Mahogany Hall ...	8.05	2.30	24	8	3.80
Barnstaple ...	6.25	2.77	24	7	...
Brampton Bryan ...	...	...	...	...	2.13
Bryan Castle ...	7.70	2.05	24	8	1.12
Braco ...	6.95	2.20	22	7	2.21
Arcadia ...	6.84	2.02	24	8	2.28
Lancaster ...	...	...	...	...	2.26
Harmony Hall ...	...	...	...	...	2.07
Vale Royal ...	6.38	2.69	24	6	2.84
Colchis Pen ...	5.22	1.48	24	9	3.08
Swanswick ...	5.72	2.60	24	11	...
Georgia ...	4.15	1.85	24	6	2.37
Long Pond ...	5.37	0.82	25	8	1.58
Hyde Hall ...	4.97	1.90	24	6	2.51
Steelfield ...	4.31	0.49	25	8	2.41
Etingdon ...	4.40	1.25	24	7	1.72
Lottery ...	4.45	7.60	24	9	2.30
Falmouth ...	2.08	0.66	25	8	2.20
Florence Hall ...	3.31	1.71	24	6	....
Good Hope ...	4.67	1.45	24	8	...
Unity ...	7.54	1.78	24	11	...
Kent ...	6.50	2.25	24	6	2.39
Gales Valley ...	...	...	...	...	3.37
Canaan ...	5.31	2.52	26	8	3.62
Content ...	5.60	1.54	27	7	2.35
Bellfield ...	...	...	...	...	..
Guilsbro ...	7.66	2.90	24	11	3.25
Moor Park ...	6.27	2.07	27	8	2.99
Rose Hall ...	4.35	2.20	25	4	...
Running Gut ...	4.15	2.10	25	4	...
Cinnamon Hill ...	4.90	2.55	25	4	...
Success ...	4.69	2.79	25	4	..
Montego Bay ...	7.20	2.09	22	9	3.71
Catherine Hall ...	7.21	2.20	22	9	4.16
Retirement ...	8.95	3.08	27	12	..
King Gate ...	14.10	3.30	24	11	3.70
Round Hill ...	...	...	...	...	2.68
Blue Hole ...	8.12	4.18	24	6	...
Haughton Court ...	3.95	3.22	24	5	...
Lucea ...	2.15	1.05	24	4	4.07
Green Island, Police St. ...	7.19	4.04	24	7	...
CENTRAL SUB-DIVISION.					
Headworks, Rio Cobre ...	70.8	1.60	14	12	3.62
Linstead ...	13.65	3.40	14	12	4.43
Berkshire Hall ...	8.48	2.87	28	13	2.40
Point Hill ...	9.13	1.90	26	14	6.07
Marlie Hill ..	...	...	...	...	...
Worthy Park ...	7.17	1.25	24	11	3.44
Croft Hill ...	4.50	1.27	24	9	..
Chapelton ...	5.40	1.53	24	15	3.57
Danks Works ...	6.35	1.53	24	13	4.67
Savoy House ...	6.91	1.53	24	14	4.09
Crooked River ...	4.25	1.72	24	10	...
Trout Hall ...	4.77	1.37	24	13	...
Cave Valley ...	5.63	1.50	15	18	2.93
...					
Means ...	8.02	...	...	...	...

* Gauge overflowed.

WEST-CENTRAL DIVISION.	APRIL, 1915. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Whitney ...	5.10	2.10	24	9	5.58
Mocho, Clarendon ...	6.45	2.15	24	6	...
Baillieston ...	4.45	1.35	13	11	5.28
Brokenhurst ...	10.70	4.10	25	11	5.25
Christiana ...	5.01	1.41	24	10	8.10
Chudleigh ...	7.48	2.00	24	15	...
Shooter's Hill ...	4.89	1.61	24	13	...
Spitzbergen ...	5.71	1.50	24	12	...
Kendal, Manchester ...	6.06	2.05	24	13	7.44
Marshalls Pen ...	9.04	2.45	25	11	5.90
Mandeville ...	8.79	3.65	25	11	5.96
Carlton, Mandeville ...	7.63	3.85	24	10	6.29
The Hill ...	8.16	1.90	24	10	...
Fairfield, Manchester ...	7.52	1.68	12	14	6.46
Ulster Spring ...	10.18	2.30	11	12	6.20
Freeman's Hall ...	7.25	1.80	11	10	...
Albert Town ...	7.17	2.05	11	8	...
Lowe River ...	11.47	2.30	21	10	5.60
Troy ...	5.72	1.00	28	8	9.62
Windsor Pen, Trel. ...	6.43	1.20	25	13	6.10
Medina ...	8.89	1.46	27	11	...
Wallingford ...	7.58	2.12	26	13	...
Balaclava Police Station ...	8.00	1.47	23	11	9.66
Siloah ...	11.63	1.35	21	14	9.16
Appleton Estate ...	...	...	...	...	9.67
Maggotty ...	14.44	4.07	21	11	9.39
Butlers ..	...	...	...	...	...
Dromilly Pen ...	9.58	2.94	24	7	...
Spring Vale ...	...	...	...	...	5.44
Garland ...	...	...	...	...	...
Mocho, Catadupa ...	...	...	...	...	...
Springfield, St. Elizabeth	9.38	2.50	21	9	3.37
Chesterfield, St. James ...	...	...	...	...	...
Catadupa Rly. Station ...	7.70	2.25	27	10	...
Kempshot ...	8.54	2.47	24	12	5.54
Cambridge, St. James ...	6.69	2.45	27	10	...
Ducketts ...	...	...	...	...	...
New Market, Police St. ...	7.81	1.76	25	8	...
The Bog, New Market ...	8.69	2.10	24	12	...
Kew Park ...	6.38	2.26	26	8	8.27
Knockalva ..	12.03	4.59	26	9	...
Ramble ...	14.12	4.80	26	10	...
Petersville ...	3.46	1.36	24	9	7.35
Darliston ...	8.53	2.27	26	16	11.40
Bluefields ...	3.11	1.20	24	4	8.80
Whithorn ...	7.40	2.50	26	12	7.98
Water Works Pen ...	5.52	1.55	17	8	...
Great Valley, Han. ...	6.60	2.20	24	9	7.62
Prospect Park ...	...	...	...	...	...
Blackheath	4.60	1.00	23	8	...
Fontabelle, Westm. ...	4.45	1.54	27	6	5.94
Belleisle ...	...	...	...	...	6.98
Morgan's Bridge ...	7.32	1.64	24	8	6.14
King's Vale Police St. ...	8.25	4.19	24	3	5.90
Means ...	7.54	...	...	...	...

SOUTHERN DIVISION.	APRIL, 1915. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	10.92	2.59	23	14	2.99
Elliott Hill ...	21.47	7.12	27	16	...
Pleasant Hill ...	20.23	7.40	26	14	...
East Prospect ...	19.36	10.45	26	9	...
Morant Bay ...	16.73	8.78	26	9	2.55
Easington ...	7.59	2.25	3	10	1.73
Bull Bay ...	6.12	2.17	14	5	0.85
Gordon Town ...	6.67	1.80	13	11	3.32
Hope Gardens ...	6.31	...	...	...	...
King's House Gardens ...	...	...	...	...	..
Halfway Tree ...	5.73	1.12	24	11	1.63
Lunatic Asylum ...	5.50	1.89	14	10	1.07
Upper Elletson Road ...	5.70	2.04	3	11	...
Kingston P. W. Office ..	5.08	1.38	14	9	1.01
Plumb Point L. H. ...	5.28	1.66	15	13	0.90
Clifton Pen ...	6.19	1.37	14	8	...
Quarantine Station ...	3.96	1.11	24	9	...
Spanish Town ...	6.17	1.26	24	12	2.30
Hog Hole, St. Catherine...	...	...	...	...	2.96
Hartlands ...	10.49	3.00	3	11	2.25
Belmont, Guanaboa Vale	9.16	2.66	14	12	..
Old Harbour ...	...	...	...	...	2.87
May Pen ...	6.46	2.03	24	8	2.92
Hillside ...	...	...	...	...	2.20
Moreland ...	...	...	...	...	1.60
Money Musk ...	3.83	2.65	24	5	1.72
Dunkley's, Vere ...	4.50	2.60	24	7	2.16
Dry River " ...	4.10	2.40	24	6	...
Denbigh ...	4.30	2.25	24	5	2.62
Toll Gate ...	9.56	2.15	24	10	...
Woodleigh ...	4.22	2.20	24	5	...
New Yarmouth ...	5.50	2.64	24	7	2.31
Exeter, Vere ...	4.43	2.60	24	6	2.22
Rhymesbury ...	4.46	2.77	24	10	2.21
Milk River ...	5.20	3.00	24	5	2.25
Clarendon Pk. Ry. St. ...	...	...	...	...	...
Victoria Town ...	...	...	...	..	3.83
Hog Hole, S. Manch. ...	9.39	3.15	24	10	...
Stone's Hope ...	4.57	2.45	24	4	4.13
Newport, Manchester ...	...	...	...	...	4.96
Great Valley, Man. ...	4.05	2.25	24	5	4.05
Alligator Pond ...	...	...	...	...	3.20
Southfield, St. Elizabeth ...	3.68	3.03	24	8	...
Lititz ...	4.96	1.30	11	11	...
Long Hill ...	...	...	...	..	7.64
Torrington ...	5.33	1.47	24	8	4.53
Bethlehem, St. Eliz. ...	7.90	2.00	12	12	6.30
Santa Cruz ...	9.30	1.90	12	14	9.34
Pedro Plains Police St. ...	1.86	1.45	24	5	4.12
Mountainside ...	5.46	1.59	12	8	...
Black River ...	3.44	1.22	24	10	7.42
Font Hill ...	3.15	1.20	24	8	8.84
Mount Edgecombe ...	6.72	2.48	26	6	8.23
Sweet River ...	5.15	1.35	27	9	9.81
Windsor, Sav.-la-mar ...	4.59	1.56	12	9	9.46
Orchard ...	5.97	1.92	27	10	...
Sav.-la-mar ...	7.43	2.75	27	6	9.29
Meylersfield ...	3.58	1.18	28	5	...
Little London ...	5.07	1.64	21	7	...
Retreat ...	6.11	2.32	25	6	9.09
Negril Point L.H ...	3.56	1.18	24	9	5.88
Means ...	6.09	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

—	April. 1915.	April. Average.
	In.	In.
North-Eastern Division ...	13.43	5.31
Northern „ ...	8.02	3.05
West-Central „ ...	7.54	7.13
Southern „ ...	6.09	3.24
The Island ...	8.77	4.68

Shocks of Earthquake in April, 1915.

Date.	Standard Time (Approx.)	Intensity.	Notes: where felt, etc.
	hr. min.		
No earthquakes this month.			

The heavy rainfall this month was due to a large shallow barometric depression which developed far to the NW of Jamaica and passed slowly along a SE course as far as Haiti. Rains fell over Jamaica between the 21st and 28th, but flood rains on or near the coast were experienced only between Port Antonio and Port Maria. The following list gives some of the heaviest falls:—

	Total.	In one day.	Date.
Manchianeal ...	30.28	9.68	25th
Spring Valley ...	32.92	8.40	23rd
Hope Bay ..	40.80	21.00	22nd
Lennox ...	35.20	18.80	22nd
Buff Bay ...	29.54	12.40	22nd

Roads were damaged; landslides on the Railway occurred; the town of Port Maria was flooded; bananas were washed away by the rivers in flood; and other damage was done.

Beneficial rains fell over the rest of the Island.

It is requested that for the future all communications to the Weather Office may be addressed to the Montego Bay P.O.

MAXWELL HALL,
Government Meteorologist.

Montego Bay P.O.

A Slack

UNIVERSITY OF [illegible]

JUL 1 2 1915

No. 442.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

MAY, 1915.

The Bar. pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.934	29.897	80.9	83.0	84.7	77.1	7.6	87.0	25	64.5	1	22 5
Kingston ..	24	29.904	29.863	77.8	84.7	87.6	73.5	14.1	91.0	7	67.9	1	23.1
Negril Point Light House ..	33	29.905	29.871	78.8	83.8	86.2	72.7	13.5	89.5	31	66.0	1	23 5
Castleton Gardens ..	496	..	..	70.0	84.0	87.8	68.4	19.4	95	6*	61	2	34
Hope Gardens† ..	668	29.899	29.825	76.1	84.6	88.5	69.9	18.6	92	6*	65	2	27
Stony Hill Indus. School ..	1,400	..	..	70.9	80.9	84.2	67.3	16.9	90	5*	64	1*	26
Hill Gardens ..	4,900	25.237	25.209	63.5	66.0	70.4	57.7	12.7	76	6*	51		25

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction from and miles per hour.				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	75.2	82	76.4	88	6.04	286	ENE.	16	ENE.	14	3.8	1.2	1.1	3.2	1.3	1.2
Kingston ..	24	71.2	80	74.3	71	3.08	237	NE.	6	SE.	18	1.1	1.7	1.2	2.3	2.3	1.7
Negril Point Light House‡ ..	33	72.3	80	74.2	73	3.96	212	E.	8	SSE.	12	2.3	0.1	3.3	4.2	3 8	0.5
Castleton Gardens ..	496	67.9	93	73.7	72	734	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	68.1	76	70.9	63	593	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus School ..	1,400	67.4	88	70.9	71	6.18	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens .	4,900	581	81	62.5	70	6.75	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.

‡ Negril Point Light House. Wind 11 p.m. E. 8.3

Plumb Point Light House { Average No. of Miles of wind per diem 313
Greatest on the 5th 583
Least on the 27th 123

THE RAINFALL.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

MAY, 1915.

NORTH-EASTERN DIVISION.	Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	9.07	3.30	16	12	14.77
Spring Valley, Portland ...	13.95	4.49	16	17	.
Bath ..	12.47	3.20	15	20	12.75
Boston ...	16.38	2.05	16	12	16.55
Moore Town ...	6.86	4.00	15	6	16.96
Port Antonio ...	15.87	5.18	18	10	16.66
Fellowship ...	17.74	6.08	17	16	20.85
Windsor, Portland ...	...	...	...	...	...
Johnson River Bridge ...	11.22	4.57	14	6	9.52
Shrewsbury ...	14.13	5.00	17	6	...
Cedar Valley, St. Thos. ...	12.63	5.20	17	8	9.33
Hope Bay ...	13.05	6.20	18	8	...
Moy Hall, St. Thos. ...	12.00	4.50	17	12	9.44
Brooklodge ...	11.78	4.55	17	11	...
Lennox ...	13.60	4.50	17	9	...
Farm Hill ...	8.04	3.75	17	6	6.57
Hill Gardens ...	6.76	...	...	...	...
Buff Bay ...	8.52	3.15	17	6	8.15
Vinery ...	10.31	4.95	15	10	..
Windsor Castle, Port. ...	9.06	2.87	18	5	...
Greenvale, Portland ...	9.37	3.45	15	10	...
Mt. Holstein ...	7.21	1.84	17	15	8.14
Irish Town ...	5.05	3.50	17	4	5.24
Rose Hill ...	6.73	3.06	17	4	...
Hardware Gap ...	5.90	..	...	...	12.57
Stony Hill Ind. School ...	6.18	4.34	17	7	9.73
Castleton Gardens ...	7.34	..	...	...	...
Lawrence Tavern ...	5.56	1.50	17	9	9.12
Cedar Valley, Red Hills ...	6.65	5.57	17	4	...
Carew Castle ...	2.83	1.17	17	9	9.23
Agualta Vale ...	5.19	1.45	16	10	...
Water Valley ...	9.64	3.31	29	11	7.23
Albany, Ry. Station ..	...	...	...	...	...
Platfield ...	...	...	...	...	...
Richmond, St. Mary ..	6.62	1.36	26	10	7.45
Hampstead, St. Mary ...	12.85	2.79	15	16	...
Troja ...	..	...	...	...	...
Guy's Hill ...	8.19	1.23	9	14	...
Lucky Hill ...	6.52	1.20	1	11	...
Rio Hoe ...	2.00	0.64	14	9	8.48
Unity Valley ...	2.30	0.66	10	11	9.99
Moneague ...	2.84	1.03	10	10	8.26
Claremont ...	3.25	1.74	14	5	7.34
Albion, St. Ann ...	3.39	1.35	14	9	8.46
Averham Park ...	4.21	1.72	14	8	8.25
Means ...	7.99	...	.	...	...

[MAY, 1915.

NORTHERN DIVISION.	Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	8.65	1.36	26	10	6.61
Ocho Rios ...	5.33	2.68	15	5	5.20
Bogue, Ocho Rios ...	7.39	3.75	15	6	...
Rockfield ...	...	..	...	...	..
Drax Hall ...	7.00	4.05	15	11	7.10
Liberty Hill ...	7.24	4.70	15	9	...
St. Ann's Bay ...	6.59	4.64	15	8	5.64
Seville ...	5.76	3.60	15	6	...
Richmond Estate ...	3.45	1.37	16	8	7.42
Llandovery ...	3.40	1.74	16	4	7.11
Runaway Bay ...	1.95	0.80	15	4	...
Brown's Town ...	5.22	3.12	18	4	7.23
Alexandria ...	3.60	2.10	18	4	...
Chewmagna, St. Ann ...	3.56	2.12	18	7	6.70
Home Castle ...	3.40	1.70	18	5	6.13
Richmond Pen ...	2.30	1.15	18	5	...
Mahogany Hall ...	...	...	..	...	...
Barnstaple ...	4.06	1.65	14	5	...
Brampton Bryan ...	...	...	...	...	...
Bryan Castle ...	3.40	1.00	15	7	5.49
Braco ...	3.40	1.70	15	5	4.90
Arcadia ...	3.90	1.43	14	8	4.98
Lancaster ...	3.87	1.00	14	8	5.40
Harmony Hall ...	4.18	1.06	15	8	4.88
Vale Royal ...	5.65	2.15	14	10	6.34
Colchis Pen ...	1.69	0.58	14	9	7.15
Swanswick ...	4.63	2.40	14	12	...
Georgia ...	4.42	1.80	14	8	5.77
Long Pond ...	4.29	1.86	14	10	5.30
Hyde Hall ...	3.52	1.53	14	10	5.27
Steelfield ...	3.60	1.65	14	10	5.86
Etingdon ...	3.40	1.25	14	6	4.34
Lottery ...	4.15	1.05	14	11	6.35
Falmouth ...	6.80	2.30	16	13	5.19
Florence Hall ...	6.88	1.74	15	11	...
Good Hope ...	9.12	2.00	18	12	...
Unity ...	9.08	2.71	18	12	...
Kent ...	6.12	1.52	18	9	5.43
Gales Valley ...	...	...	...	...	...
Canaan ...	11.39	2.50	18	13	7.55
Content ...	4.88	1.72	18	8	6.86
Bellfield ...	4.86	2.00	18	8	..
Guilsbro ...	11.29	2.26	17	17	8.61
Glasgow ...	6.89	1.75	18	13	...
Moor Park ...	7.73	1.70	18	11	6.69
Rose Hall ...	6.25	2.00	18	5	4.84
Running Gut ...	6.30	2.00	18	5	7.60
Cinnamon Hill ...	6.40	2.00	18	5	5.28
Success ...	6.00	1.90	16	5	4.57
Montego Bay ...	9.51	2.50	18	15	7.60
Catherine Hall ...	9.27	2.17	18	14	8.69
Retirement ...	9.27	1.79	17	16	...
King Gate ...	15.45	2.80	29	14	9.18
Round Hill ...	2.94	1.00	...	6	...
Blue Hole ...	15.31	4.60	29	11	...
*Haughton Court ...	16.37	4.22	13	16	...
Lucea ...	16.21	3.26	13	17	8.09
Green Island, Police St. ...	9.29	1.72	14	10	..
CENTRAL SUB-DIVISION.					
Headworks, Rio Cobre ...	5.80	3.04	17	6	7.71
Linstead ...	4.05	2.50	17	7	9.64
Berkshire Hall ...	3.74	1.00	13	12	5.43
Point Hill ...	3.20	1.60	17	12	12.80
Marlie Hill ..	2.54	1.37	14	3	...
Worthy Park ...	1.54	0.62	18	5	...
Croft Hill ...	2.08	0.58	20	6	..
Chapelton ...	2.91	1.22	14	6	8.47
Danks Works ...	2.74	1.18	14	7	9.22
Savoy House ...	2.80	1.16	14	7	8.03
Crooked River ...	2.67	1.10	18	5	...
Trout Hall ...	4.77	3.28	18	8	...
Cave Valley ...	3.55	1.65	18	6	..
Means ...	5.70	...	...	...	...

* Gauge overflowed.

WEST-CENTRAL DIVISION.	MAY, 1915. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Whitney ...	7.05	3.20	18	9	10.85
Mocho, Clarendon ...	7.95	2.80	14	5	...
Baillieston ...	4.21	1.20	18	10	10.41
Brokenhurst ...	12.30	5.60	18	11	10.02
Christiana ...	..	...	...	...	...
Chudleigh ...	9.13	5.85	18	11	...
Shooter's Hill ...	9.77	6.99	18	11	...
Spitzbergen ...	9.47	5.99	18	10	...
Kendal, Manchester ...	11.21	8.25	18	6	10.16
Marshalls Pen ...	10.31	6.84	18	10	10.01
Mandeville ...	11.88	8.00	18	11	11.17
Carlton, Mandeville ...	9.11	6.13	18	9	...
The Hill ...	5.50	1.95	17	8	...
Fairfield, Manchester ...	3.11	1.25	17	11	7.87
Ulster Spring ...	4.82	1.95	14	7	11.61
Freeman's Hall ...	3.80	1.40	18	7	...
Albert Town ...	3.42	1.25	24	6	...
Lowe River ...	8.76	2.89	23	11	8.58
Troy ...	6.91	2.21	18	4	17.69
Windsor Pen, Trel. ...	7.79	2.65	18	14	10.96
Medina ..	3.95	2.94	18	5	...
Wallingford ...	1.13	0.55	18	5	...
Balaclava Police Station ...	1.30	0.56	15	5	14.41
Siloah ...	7.42	2.00	26	9	15.27
Appleton Estate ...	...	...	...	...	...
Maggotty ...	3.52	1.89	16	8	...
Butlers ..	3.11	1.16	25	5	...
Dromilly Pen ...	10.86	2.60	18	11	...
Spring Vale ...	16.19	6.04	28	12	13.57
Garland ...	...	...	...	...	...
Mocho, Catadupa ...	...	...	...	...	...
Springfield, St. Elizabeth	2.61	1.00	26	7	...
Chesterfield, St. James ...	...	...	...	...	...
Catadupa Rly. Station ...	4.44	1.70	26	11	...
Kempshot ...	10.51	2.54	27	18	10.37
Cambridge, St. James ...	8.31	1.86	26	18	...
Ducketts ...	...	...	...	...	...
New Market, Police St. ...	2.93	1.60	16	5	...
The Bog, New Market ...	4.73	1.86	16	8	...
Kew Park ...	3.27	1.15	14	8	12.91
Knockalva ..	6.30	1.34	14	15	...
Ramble ...	7.99	1.47	14	13	...
Petersville ...	1.98	1.16	16	7	12.19
Darliston ...	6.71	2.33	26	14	16.91
Bluefields ...	1.88	0.89	16	6	...
Whithorn ...	4.26	1.50	13	10	14.88
Water Works Pen ...	3.97	1.10	13	9	...
Great Valley, Han. ...	11.38	2.90	29	11	14.22
Prospect Park ...	5.17	1.00	10	15	...
Blackheath ...	5.59	2.16	27	6	...
Fontabelle, Westm. ...	7.81	2.53	26	21	9.36
Belleisle ...	...	...	...	...	...
Morgan's Bridge ...	6.62	2.80	26	6	12.36
King's Vale Police St. ...	8.90	2.15	13	15	9.76
Means ...	7.60	...	...	...	...

SOUTHERN DIVISION.	MAY, 1915. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	6.04	3.64	16	12	10.76
Elliott Hill ...	9.58	3.88	17	20	...
Pleasant Hill ...	10.07	4.10	16	19	...
East Prospect ...	12.24	4.53	16	16	...
Morant Bay ...	8.69	3.40	16	18	8.00
Easington ...	7.58	2.56	17	9	6.33
Bull Bay ...	5.22	3.20	17	4	4.13
Gordon Town ...	...	...	...	...	...
Hope Gardens ...	5.93	...	...	...	...
King's House Gardens ...	...	...	...	...	..
Halfway Tree ...	5.76	3.82	17	4	4.87
Lunatic Asylum ...	4.36	2.50	17	4	3.57
Upper Elletson Road ...	4.48	2.75	17	5	...
Kingston P. W. Office ..	3.08	1.95	17	5	4.63
Plumb Point L. H. ...	6.92	3.03	18	5	4.80
Clifton Pen ...	5.30	3.80	17	2	...
Quarantine Station ...	2.85	1.93	17	5	...
Spanish Town ...	8.04	6.40	17	4	5.77
Hog Hole, St. Catherine...	5.75	3.65	17	4	6.79
Hartlands ...	6.02	3.50	17	4	4.34
Belmont, Guanaboa Vale	2.33	1.27	17	7	..
Old Harbour ...	4.09	2.15	17	7	5.78
May Pen ...	3.44	1.21	14	6	6.84
Hillside ...	...	...	...	...	...
Moreland ...	...	...	...	...	...
Money Musk ...	...	...	...	...	...
Dunkley's, Vere ...	5.75	1.80	17	10	4.50
Dry River " ...	5.90	1.47	17	11	...
Denbigh ...	3.34	1.14	17	4	7.61
Toll Gate ...	6.45	2.64	18	8	...
Woodleigh ...	3.20	1.15	17	4	...
New Yarmouth ...	6.38	1.96	18	8	4.86
Exeter, Vere ...	5.12	1.42	16	11	4.94
Rhymesbury ...	5.78	2.37	17	9	5.89
Milk River ...	5.20	3.20	18	5	5.84
Clarendon Pk. Ry. St. ...	5.87	2.40	18	8	...
Victoria Town ...	7.08	3.00	18	10	9.18
Hog Hole, S. Manch. ...	10.59	3.82	18	11	...
Stone's Hope ...	5.13	3.15	17	5	9.30
Newport, Manchester ...	7.07	2.67	17	11	8.37
Great Valley, Man. ...	4.04	1.82	17	7	6.99
Alligator Pond ...	1.37	0.50	17	3	5.86
Southfield, St. Elizabeth ...	3.61	1.85	17	7	...
Lititz ...	1.20	0.90	17	6	...
Long Hill ...	...	...	...	..	...
Torrington ...	4.05	1.75	17	4	...
Bethlehem, St. Eliz. ...	4.04	1.52	16	8	7.64
Santa Cruz ...	0.83	0.33	17	6	12.81
Pedro Plains Police St. ...	2.42	1.43	15	5	4.12
Mountainside ...	2.07	1.10	16	4	...
Black River ...	1.75	0.90	16	6	7.42
Font Hill ...	1.30	0.60	24	4	8.84
Mount Edgecombe ...	1.81	1.54	16	7	8.23
Sweet River ...	3.60	1.30	20	7	9.81
Windsor, Sav.-la-mar ...	2.36	0.80	13	9	9.46
Orchard ...	3.41	0.84	26	8	...
Sav.-la-mar ...	1.45	0.45	16	8	9.29
Meylersfield ...	1.57	0.80	26	5	...
Little London ...	1.72	0.55	26	6	...
Retreat ...	1.72	0.72	26	4	9.09
Negril Point L.H ...	3.96	1.60	11	7	5.88
Means ...	4.47	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

—	May. 1915.	May. Average.
	In.	In.
North-Eastern Division ...	7.99	10.82
Northern „ ...	5.70	7.07
West-Central „ ...	7.60	12.49
Southern „ ...	4.47	6.94
The Island ...	6.44	9.33

The greatest rainfall, 17.74, was recorded at Fellowship: and the lowest, 1.13, was recorded at Wallingford. The rainfall was very unevenly distributed: fairly good rains fell in the E, NE, and N of the island as far as Lucea and Green Island; and fairly good rains fell in Manchester. But the Central sub-division was dry: and hardly any rain fell in the SW of the Island.

Shocks of Earthquake in May, 1915.

Date.	Standard Time (Approx.)	Intensity.	Notes: where felt, etc.
	hr. min.		
4	5 25 p.m.	I	Mt. Holstein: N & S, 0.004: preceded by sound.
8	5 54 "	II	Great Valley, Han. Double shock N & S, E & W. Also felt at Kempshot, Windsor Pen, Siloah, Butlers and Petersfield. At Kempshot it lasted 4 sec. N. and S.
22	10 45 a.m.	II	Linstead, Ewarton, &c. Double shock.
27	3 45 "	II	Yallahs.

NOTES.

May 4th. From B or B_3, due 2nd and 4th, both near Mt. Holstein.
May 8th. From D_2, due 8th: it seems to have stirred up D, not due, but the direction at Gt. Valley, and at Kempshot N & S, refer to D.
May 22nd. From M_E & M_W, due 21st and 22nd. Ewarton is between these epicentres.
May 27. Unknown.

Corrigenda.

			Bar. 7 a.m.	Pressure. 3 p.m.
W.R. No. 429, p. 1; Morant Pt. Light-house—Read	...	...	29.975	29.636
W.R. No. 439. p. 5; do. For April "	...	...	"	"
For means "	..	...	29.974	29.934

It is requested that for the future all communications to the Weather Office may be addressed to the Montego Bay P.O.

MAXWELL HALL,
Government Meteorologist.

Montego Bay P.O.

Evaporation.

The following table is taken from the Monthly Meteorological Reports issued at first from the office of the Chief Engineer, and subsequently continued by the Department of Operation and Maintenance of the Panama Canal.

Evaporation from the surface of Lake Gatun.

1914.	Evaporation.	Colon.				
		Wind.	Humid.	Vapour.	Temp.	Rainfall.
	in.	miles per hr.		in.	°	in.
January ..	4.82	13.0	81	0.812	80.7	1.35
February ..	6.30	15.6	80	0.802	80.9	1.32
March ..	7.50	17.2	80	0.808	81.3	0.91
April ..	6.69	13.1	83	0.860	81.4	4.12
May ..	5.26	11.0	86	0.908	81.7	17.76
June ..	4.56	8.2	87	0.884	80.5	16.30
July ..	5.52	11.4	86	0.915	82.0	10.74
August ..	4.68	10.7	88	0.917	81.0	16.01
September ..	4.07	8.7	89	0.890	79.4	14.80
October ..	4.23	6.8	89	0.872	79.8	22.16
November ..	4.18	7.3	88	0.882	79.9	18.35
December ..	5.08	11.0	89	0.928	81.5	8.88
Totals ..	62.89	..	..	..	..	132.70
Means ..	5.28	11.2	86	0.873	80.8	..

Evaporation depends of course upon Humidity and Wind; if the air is saturated with moisture there can be no evaporation; and (100—humidity) may be taken to measure the drying power of the air; the effect of wind is obvious.

Evaporation has not been measured in Jamaica as far as I am aware, so that the above table may be of some value; it gives the evaporation from the surface of the lake, some 10 miles south of Colon; and as the wind at Colon is almost always northerly, the meteorological conditions will not be greatly different at the two places.

It will be seen that the monthly evaporation does not greatly differ from the mean, and any small variation from the mean may be roughly expressed by

0.27 Wind—0.034 Humidity.

In attempting to apply these figures to Jamaica we shall take the wind to be 5 miles an hour and the Humidity 82; and for the sake of comparison, Vapour 0.76, Temperature 77°, and Rainfall, 72 inches.

Hence we may expect that the evaporation from the exposed surface of water in Jamaica is about 4 inches a month, or 48 inches a year.

With reference to shallow ponds used on many cattle pens for water for the stock, the only wonder is that during long continued droughts they last so well; and the above result shows that deeper ponds paved with concrete are preferable to a larger number of shallow ponds, the expense being much the same in the two cases; but again, there is difficulty in keeping such deeper ponds clean.

With regard to tanks for domestic or public water supply, they should certainly be covered to prevent evaporation, and to keep out leaves and dust; it is no doubt true that sun and air purify water by killing germs; but a quantity of decaying vegetable matter at the bottom of a tank altert he conditions, and the water rapidly becomes impure.

In connection with evaporation a few words may be said about the amount of Dew deposited. According to a series of observations made by Prof. W. H. Pickering at Mandeville and published in the Quarterly Journal of the R. Meteor. Society for Oct. 1913, on an average 0.0045 in. of dew falls there every night: this amounts to only 0.14 in. a month, or to 1.64 in. a year; and may therefore be neglected as far as ponds and tanks are concerned, however beneficial it may be to vegetation.

June 10th, 1915. M. H.

A Stack

No. 443.

JAMAICA

WEATHER REPORT

UNIVERSITY OF TORONTO
AUG 31 1915

FOR THE MONTH OF

JUNE, 1915.

The Bar. pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.931	29.902	82.9	84.4	86.4	73.8	7.6	88.0	27	73.0	15	15 0
Kingston ..	24	29.902	29.876	73.3	84.6	89.5	71.6	14.9	94.3	27	71.9	29	22 4
Negril Point Light House ..	33	29.900	29.881	80.1	83.7	87.5	74.7	12.8	91.1	27	71.6	16	19 5
Castleton Gardens ..	496	..	..	71.7	83.7	88.2	70.7	17.5	94	26	68	8*	26
Hope Gardens† ..	668	29.901	29.851	77.1	..	83.9	70.8	18.1	94	27	69	6*	25
Stony Hill Indus. School ..	1,400	..	..	72.2	80.8	84.1	69.6	14.5	90	27	68	8*	22
Hill Gardens ..	4,900	25.264	25.240	64.8	67.4	68.2	59.2	9.0	76	26	58	0*	18

Stations.	Elevation.	Dew Point and Humidity. 7 a.m.		Dew Point and Humidity. 3 p.m.		Rainfall.	Wind per diem.	Wind: direction from and miles per hour. 7 a.m.		Wind: direction from and miles per hour. 3 p.m.		Amount of Cloud. Lower, Middle and Upper. 7 a.m.			Amount of Cloud. Lower, Middle and Upper. 3 p.m.		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	75.9	79	76.1	76	7.05	261	E.	16	E.	13	3.3	1.5	0.9	3.3	1.0	1 2
Kingston ..	24	69.9	76	76.0	76	14.51	203	ENE.	5	SE.	14	1.6	0.7	2.8	3.1	2.1	2 2
Negril Point Light House‡ ..	33	73.4	79	75.7	77	5.85	229	ESE.	8	SE.	13	1.0	1.1	3.4	3.3	4.8	1.0
Castleton Gardens ..	496	69.9	93	73.6	72	16.33	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	69.5	79	76.4	..	10.26	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	69.1	90	73.0	77	15.63	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	59.4	81	64.1	90	19.68	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m. S.E. 8.3

Plumb Point Light House { Average No. of Miles of wind per diem 242
Greatest on the 28th 401
Least on the 4th 99

THE RAINFALL.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	JUNE, 1915. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	14.56	4.54	15	11	10.20
Spring Valley, Portland ...	16.72	4.68	15	16	.
Bath ..	16.54	3.40	14	15	13.29
Boston ...	20.17	6.90	15	12	16.35
Moore Town ...	30.86	9.01	14	12	25.57
Port Antonio ...	35.41	15.70	15	15	17.96
Fellowship ...	25.17	10.00	15	16	22.43
Windsor, Portland ...	...	...	...	...	...
Johnson River Bridge ...	22.74	7.09	14	20	19.17
Shrewsbury ...	18.57	5.80	14	7	11.59
Cedar Valley, St. Thos. ...	33.16	7.04	15	11	19.90
Hope Bay ...	19.05	6.45	15	10	...
Moy Hall, St. Thos. ...	33.70	7.75	15	13	13.82
Brooklodge ...	26.26	6.76	15	12	...
Lennox ...	18.70	5.75	14	10	...
Farm Hill ...	27.22	6.16	15	9	6.78
Hill Gardens ...	19.68	...	...	...	8.11
Buff Bay ...	12.95	3.80	15	7	7.50
Vinery ...	10.39	3.60	15	8	..
Windsor Castle, Port. ...	10.88	3.04	29	6	...
Greenvale, Portland ...	13.28	3.41	14	10	...
Mt. Holstein ...	13.93	3.06	15	15	8.16
Irish Town ...	10.26	3.12	15	7	4.97
Rose Hill ...	11.38	4.10	15	12	...
Hardware Gap ...	16.64	..	...	...	7.86
Stony Hill Ind. School ...	15.68	4.90	15	15	7.47
Castleton Gardens ...	16.33	..	...	...	9.93
Lawrence Tavern ...	10.10	3.30	15	12	7.48
Cedar Valley, Red Hills ...	16.59	5.43	15	10	...
Carew Castle ...	11.05	3.75	15	12	10.47
Agualta Vale ...	9.64	3.54	15	12	...
Water Valley ...	7.87	3.38	15	15	6.01
Albany, Ry. Station ..	...	...	...	...	...
Platfield ...	11.13	2.81	15	14	...
Richmond, St. Mary ...	10.33	3.06	19	9	5.93
Hampstead, St. Mary ...	12.98	2.38	14	15	...
Troja ...	.	...	...	...	...
Guy's Hill ...	12.08	2.80	15	13	...
Lucky Hill ...	9.12	3.10	15	8	...
Rio Hoe ...	8.06	2.34	15	12	9.11
Unity Valley ...	9.50	3.90	16	12	8.56
Moneague ...	8.61	3.36	16	10	8.34
Claremont ...	10.17	1.80	15	9	6.43
Albion, St. Ann ...	8.09	1.86	16	10	6.97
Averham Park ...	7.72	1.87	15	12	6.31
Means ...	16.97	...	..	...	...

NORTHERN DIVISION.	JUNE, 1915. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	8.68	2.78	15	9	5.53
Ocho Rios ...	6.74	1.65	15	7	5.20
Bogue, Ocho Rios ...	7.85	3.95	16	8	...
Rockfield ...	6.59	1.45	15	8	..
Drax Hall ...	8.15	1.80	16	10	5.16
Liberty Hill ...	6.27	1.20	15	9	...
St. Ann's Bay ...	6.27	1.33	7	12	4.30
Seville ...	6.18	1.15	7	10	4.90
Richmond Estate ...	4.29	1.07	28	11	5.04
Llandovery ...	8.89	3.98	6	6	4.53
Runaway Bay ...	3.38	0.70	14	8	...
Brown's Town ...	3.89	1.42	14	6	4.74
Alexandria ...	7.05	2.55	16	5	...
Chewmagna, St. Ann ...	6.81	1.62	16	12	...
Home Castle ...	3.00	1.30	14	8	4.48
Richmond Pen ...	5.06	1.00	14	9	5.35
Mahogany Hall ...	3.10	0.80	15	9	6.02
Barnstaple ...	3.25	0.90	14	6	...
Brampton Bryan ...	...	...	...	...	...
Bryan Castle ...	2.70	1.05	15	7	3.63
Braco ...	2.30	0.80	14	8	3.26
Arcadia ...	3.83	1.05	14	9	4.46
Lancaster ...	3.16	1.12	14	9	3.54
Harmony Hall ...	4.55	1.25	14	11	3.03
Vale Royal ...	4.19	1.20	6	6	4.69
Colchis Pen ...	2.67	0.70	6	8	5.11
Swanswick ...	4.35	1.22	11	8	..
Georgia ...	3.88	1.45	11	10	3.92
Long Pond ...	4.30	1.11	11	9	5.11
Hyde Hall ...	4.18	1.05	11	11	5.24
Steelfield ...	3.66	1.21	11	9	4.40
Etingdon ...	3.85	1.45	11	8	4.54
Lottery ...	4.80	1.15	7	14	4.14
Falmouth ...	2.66	0.62	8	10	2.88
Florence Hall ...	3.67	0.86	7	10	...
Good Hope ...	7.41	2.43	8	15	...
Unity ...	8.00	1.75	8	13	...
Kent ...	3.05	0.82	8	12	3.73
Canaan ...	7.71	1.10	6	20	7.76
Content ...	3.97	1.50	8	14	4.81
Bellfield ...	6.31	2.27	8	11	..
Guilsbro ...	6.47	1.78	8	17	6.68
Glasgow ...	4.41	1.35	8	14	...
Moor Park ...	3.95	1.38	8	12	6.62
Rose Hall ...	2.50	0.85	8	7	3.30
Running Gut ...	2.65	1.00	8	7	3.32
Cinnamon Hill ...	2.16	0.58	6	7	3.47
Success ...	3.19	1.33	6	8	2.92
Montego Bay ...	5.16	1.30	8	16	7.19
Catherine Hall ...	4.30	1.12	19	13	7.30
Retirement ...	3.88	1.28	8	19	...
King Gate ...	7.17	2.73	24	17	9.92
Round Hill ...	2.50	0.50	...	7	...
Blue Hole ...	9.31	2.35	12	13	...
Haughton Court ...	4.78	2.16	6	7	...
Lucea ...	7.25	1.45	1	13	8.76
Green Island, Police St. ...	6.46	1.30	6	11	..
CENTRAL SUB-DIVISION.					
Headworks, Rio Cobre ...	14.27	4.75	15	11	6.16
Linstead ...	16.18	4.80	15	10	8.59
Berkshire Hall ...	12.88	3.86	5	13	8.65
Point Hill ...	23.99	5.00	15	18	11.26
Marlie Hill ..	19.76	6.62	15	15	...
Worthy Park ...	..	...	...	...	...
Croft Hill ...	10.48	1.56	28	13	..
Chapelton ...	15.43	3.58	18	12	7.56
Danks Works ...	15.48	3.52	16	20	8.05
Savoy House ...	16.48	4.56	16	20	9.18
Crooked River ...	16.93	5.20	17	11	...
Trout Hall ...	22.34	6.95	16	15	...
Cave Valley ..	...	..	...	...	..
Means ...	6.65	...	...	...	...

WEST-CENTRAL DIVISION.	JUNE, 1915. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Whitney ...	22.30	4.10	16	11	12.96
Mocho, Clarendon ...	16.81	4.37	16	10	...
Baillieston ...	10.69	2.18	5	18	10.06
Brokenhurst ...	15.11	2.65	15	15	13.68
Christiana ...	...	...	...	...	...
Chudleigh ...	13.61	2.07	14	15	...
Shooter's Hill ...	14.91	2.17	17	19	...
Spitzbergen ...	16.41	2.14	16	15	...
Kendal, Manchester ...	15.22	2.62	16	18	10.21
Marshalls Pen ...	10.38	1.97	15	13	8.39
Mandeville ...	14.38	2.54	15	14	10.07
Carlton, Mandeville ...	9.24	1.75	15	10	...
The Hill ...	8.58	2.20	15	11	...
Fairfield, Manchester ...	11.05	2.32	4	18	9.08
Ulster Spring ...	17.09	3.00	9	15	5.59
Freeman's Hall ...	10.25	2.15	3	15	...
Albert Town ...	10.17	1.30	7	15	...
Lowe River ...	13.32	2.15	15	10	4.54
Troy ...	20.95	2.00	12	15	7.77
Windsor Pen, Trel. ...	9.66	1.50	8	16	9.45
Medina ..	10.61	3.65	5	11	...
Wallingford ...	9.79	4.92	5	12	...
Balaclava Police Station ...	10.16	4.21	5	12	4.98
Siloah ...	13.68	2.28	14	17	4.80
Appleton Estate ...	...	...	...	...	...
Maggotty ...	13.94	1.90	6	17	6.35
Butlers ..	12.46	2.67	14	17	...
Dromilly Pen ...	8.69	1.78	10	13	...
Spring Vale ...	10.31	2.96	8	8	11.31
Mocho, Catadupa ...	...	...	...	...	...
Springfield, St. Elizabeth	10.39	1.83	4	17	...
Chesterfield, St. James ...	...	...	...	...	...
Catadupa Rly. Station ...	14.05	2.70	5	19	...
Kempshot ...	5.71	1.67	6	17	9.29
Cambridge, St. James ...	8.59	3.00	11	16	...
Ducketts ...	...	...	...	...	...
New Market, Police St. ...	13.49	1.72	11	15	...
The Bog, New Market ...	15.23	2.45	14	16	...
Kew Park ...	4.99	1.46	6	14	9.56
Knockalva ..	5.73	1.51	6	15	...
Ramble ...	10.51	4.60	6	15	...
Petersville ...	14.03	3.39	12	18	8.54
Darliston ...	9.05	1.35	14	19	10.38
Bluefields ...	18.28	3.12	12	18	...
Whithorn ...	12.28	2.20	14	18	9.58
Water Works Pen ...	10.42	2.00	14	18	...
Great Valley, Han. ...	12.42	4.00	6	16	12.95
Prospect Park ...	...	...	...	...	...
Blackheath ...	10.13	1.76	...	15	...
Fontabelle, Westm. ...	7.39	1.60	13	14	11.19
Belleisle ...	...	...	...	...	...
Morgan's Bridge ...	8.72	1.95	12	16	10.61
King's Vale Police St. ...	12.14	2.65	22	14	11.37
Means ...	12.30	...	...	...	...

SOUTHERN DIVISION.	JUNE, 1915. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	7.05	3.17	14	15	7.12
Elliott Hill ...	12.62	3.26	15	21	...
Pleasant Hill ...	10.33	2.50	14	18	...
East Prospect ...	12.82	4.20	14	14	...
Morant Bay ...	16.36	6.84	14	17	10.19
Easington ...	18.08	6.00	14	10	10.28
Bull Bay ...	11.85	5.00	15	4	5.41
Gordon Town ...	10.49	3.50	15	10	5.88
Hope Gardens ...	10.26	..	...	...	5.55
King's House Gardens ...	10.67	...	...	...	5.16
Melrose ...	13.65	5.52	16	9	...
Halfway Tree ...	13.50	5.75	15	6	4.58
Lunatic Asylum ...	15.47	5.00	15	9	5.90
Upper Elletson Road ...	15.92	5.40	15	9	...
Kingston P. W. Office ...	14.51	4.22	15	9	4.38
Plumb Point L. H. ...	13.22	5.70	15	11	4.65
Clifton Pen ...	15.15	6.25	15	5	...
Quarantine Station ...	16.83	7.99	15	8	...
Spanish Town ...	15.64	6.52	15	8	5.24
Hog Hole, St. Catherine...	15.29	5.90	15	9	5.81
*Hartlands ...	20.90	13.40	15	7	5.35
Belmont, Guanaboa Vale	16.75	6.66	15	12	..
Old Harbour ...	12.07	4.00	15	9	7.68
May Pen ...	16.78	4.54	16	8	7.66
Hillside ...	...	...	...	...	...
Moreland ...	...	...	...	...	...
Money Musk ...	...	...	...	...	...
Dunkley's, Vere ...	14.65	5.05	18	9	11.05
Dry River " ...	14.20	5.50	15	10	...
Denbigh ...	10.68	4.28	15	6	6.01
Toll Gate ...	15.19	4.49	15	12	...
Woodleigh ...	12.00	5.50	15	6	...
New Yarmouth ...	13.76	5.12	15	11	7.16
Exeter, Vere ...	...	...	...	...	..
Rhymesbury ...	12.55	5.10	15	11	10.58
Milk River ...	8.16	3.10	15	6	10.55
Clarendon Pk. Ry. St. ...	...	...	..	...	...
Victoria Town ...	16.13	4.60	15	10	8.63
Hog Hole, S. Manch. ...	16.26	3.75	15	12	...
Stone's Hope ...	11.43	2.81	16	13	10.18
Newport, Manchester ...	11.31	2.75	15	18	10.62
Great Valley, Man. ...	9.87	2.76	16	13	8.10
Alligator Pond ...	5.45	1.80	15	8	6.00
Southfield, St. Elizabeth ...	9.54	4.45	16	10	...
Lititz ...	6.90	1.90	5	11	...
Long Hill ...	...	...	...	..	...
Torrington ...	6.66	2.85	16	8	4.41
Bethlehem, St. Eliz. ...	10.02	3.65	16	17	5.26
Santa Cruz ...	11.05	2.32	10	16	6.06
Pedro Plains Police St. ...	4.10	2.48	16	6	4.30
Mountainside ...	7.94	2.16	16	10	...
Black River ...	9.80	2.72	10	15	4 02
Font Hill ...	8.55	2.10	5	12	6.08
Mount Edgecombe ...	9.49	2.12	12	15	6.82
Sweet River ...	9.75	2.70	15	14	7.37
Windsor, Sav.-la-mar ...	8.92	3.15	28	14	6.72
Orchard ...	9.54	3.19	28	16	...
Sav.-la-mar ...	6.78	2.20	14	13	6.64
Meylersfield ...	8.90	2.15	13	12	...
Little London ...	11.87	4.21	5	12	...
Retreat ...	10.93	3.40	14	14	7.95
Negril Point L.H ...	5.85	1.96	14	15	6.26
Means ...	11.69	...	...	...	...

*See notes.

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

—	June. 1915.	June. Average.
	In.	In.
North-Eastern Division ...	16.97	10.75
Northern „ ...	6.65	5.74
West-Central „ ...	12.30	9.48
Southern „ ...	11.69	6.93
The Island ...	11.90	8.22

Shocks of Earthquake in June, 1915.

Date.	Standard Time (Approx.)	Intensity.	Notes: where felt, etc.
	hr. min.		
7	3 30 p.m.	I	Moy Hall. B_3 due June 7.2.
18	0 0 ?a.m.	II	Mt. Holstein, N.E. & S.W. 0.008 } ME due June, 17.2
18	10 45 "	I	" N.E. & S.W. 0.005 } ME due June, 17.2

Heavy rains fell over the east and middle of the Island between the 14th and 18th, due to a storm centre, at first W and then NW of Jamaica, which drew in the winds from the SE and S. On the 15th about 5 inches fell in Kingston and its neighbourhood; early in the morning of the 18th a great rain storm with thunder and lightning passed over Kingston and lower St. Andrew: and between the 14th and 18th over 13 inches fell. In the country districts some damage was done to the roads. Havana was warned on the 16th.

A remarkable squall, or series of squalls, passed along the Island on the 28th accompanied by a rapid rise in th barometer. At Yallahs at 10 a.m. it blew down trees: at Kingston at 11.45 a.m. the squall was SE, 40 miles an hour:e at Biscany in St. Elizabeth at 2 p.m. trees were blown down, and the ground was thickly covered with hail.

The rains at Hartlands on the 15th afford a case of a marked maximum at a particular place during heavy general rains. On the 15th between 7 a.m. and 6 p.m. 9 inches fell: and between 6 p.m. and 7 a.m. the following morning 4.40 inches fell: so that 13.40 inches were registered for the 15th. Hundreds of acres of the level land were flooded.

It is requested that for the future all communications to the Weather Office may be addressed to the Montego Bay P.O.

MAXWELL HALL,
Government Meteorologist.

Montego Bay P.O.

No. 444.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

JULY, 1915.

The Bar. pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.993	29.952	83.4	85.5	87.0	80.0	7.0	88.0	3*	75.0	7	13 0
Kingston ..	24	29.948	29.909	77.6	86.3	90.8	74.3	16.5	92.8	16	69.5	11	23 3
Negril Point Light House ..	33	29.951	29.927	78.7	83.2	88.0	73.3	14.7	90.5	31	71.0	3	19 5
Castleton Gardens ..	496	..	..	71.6	85.5	92.4	70.5	21.9	94	30	68	1*	26
Hope Gardens† ..	668	29.940	29.885	76.4	85.3	90.2	70.7	19.5	94	30	67	10	27
Stony Hill Indus. School ..	1,400	..	..	72.3	83.1	87.2	69.9	17.3	91	3*	68	6*	23
Hill Gardens ..	4,900	25.295	25.278	64.2	68.2	..	59.4	..	75	7*	58	1*	17

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction from and miles per hour.				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U
Morant Pt. Light House ..	8	76.1	78	77.3	76	2.68	266	ENE.	16	E.	16	1.4	2.4	2.2	1.8	2.1	1 5
Kingston ..	24	71.2	81	73.6	66	0.42	217	N.E.	4	SE.	18	0.8	1.5	3.5	1.8	2.0	3 5
Negril Point Light House‡ ..	33	70.5	76	73.8	73	7.13	178	E.	8	E.	10	0.7	0.2	5.0	3.5	5.7	0.3
Castleton Gardens ..	496	69.7	93	74.7	70	11.16	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	69.9	82	74.3	70	2.45	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	69.4	90	70.5	65	6.60	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	59.1	84	63.7	87	2.95	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m E.NE 6.0

Plumb Point Light House { Average No. of Miles of wind per diem 249
Greatest on the 15th 398
Least on the 2nd 175

THE RAINFALL.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	JULY, 1915. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	8.15	1.40	17	16	6.46
Spring Valley, Portland ...	10.34	1.08	16	24	.
Bath ..	7.14	1.80	20	21	9.66
Boston ...	8.02	1.00	22	17	7.34
Moore Town ...	17.36	2.80	22	17	20.23
Port Antonio ...	8.77	1.10	10	25	11.60
Fellowship ...	10.44	1.12	25	20	16.64
Windsor, Portland ...	...	...	...	...	...
Johnson River Bridge ...	6.66	0.87	10	25	7.71
Shrewsbury ...	7.42	4.00	10	8	8.50
Cedar Valley, St. Thos. ...	5.53	1.70	10	8	4.85
Hope Bay ...	...	...	...	..	..
Moy Hall, St. Thos. ...	4.88	1.55	11	13	5.53
Brooklodge ...	3.62	1.64	10	16	...
Lennox ...	8.25	3.00	10	20	...
Farm Hill ...	6.98	2.10	29	7	3.34
Hill Gardens ...	2.95	...	...	...	...
Buff Bay ...	6.35	3.25	10	9	7.37
Vinery ...	9.21	6.04	18	9	..
Windsor Castle, Port. ...	6.00	4.53	11	4	...
Greenvale, Portland ...	4.70	3.95	10	5	...
Mt. Holstein ...	5.15	2.48	16	15	3.35
Irish Town ...	0.93	0.75	16	2	1.31
Rose Hill ...	4.61	1.81	19	5	...
Hardware Gap ...	5.50	..	...	...	4.27
Stony Hill Ind. School ...	6.60	1.30	16	18	5.39
Castleton Gardens ...	11.16	..	...	...	...
Lawrence Tavern ...	7.48	2.20	12	12	5.43
Cedar Valley, Red Hills ...	4.24	1.13	17	10	...
Carew Castle ...	10.67	3.39	16	16	7.08
Agualta Vale ...	8.86	6.40	10	10	...
Water Valley ...	8.35	5.60	10	8	3.46
Albany, Ry. Station ..	...	...	...	...	...
Platfield ...	5.57	0.98	18	16	...
Richmond, St. Mary ..	3.56	1.76	10	8	3.68
Hampstead, St. Mary ...	6.91	4.42	10	12	...
Troja ...	..	...	...	...	...
Guy's Hill ...	6.39	2.60	22	14	...
Lucky Hill ...	4.74	1.80	11	10	...
Rio Hoe ...	5.65	1.48	26	13	4.29
Unity Valley ...	6.53	2.36	25	17	5.92
Moneague ...	6.26	1.58	26	14	4.73
Claremont ...	3.53	0.98	25	6	3.43
Albion, St. Ann ...	7.70	3.10	28	14	4.24
Averham Park ...	2.25	0.92	10	5	3.38
Means ...	6.84	...	...	...	...

NORTHERN DIVISION.	JULY, 1915. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria ...	7.57	3.91	10	10	4.19
Ocho Rios ...	1.19	0.55	25	4	2.34
Bogue, Ocho Rios ...	4.10	1.25	6	8	...
Rockfield ...	3.83	1.40	27	8	..
Drax Hall ...	2.45	1.00	10	11	2.96
Liberty Hill ...	3.12	1.20	10	7	...
St. Ann's Bay ...	1.86	0.68	10	12	2.96
Seville ...	1.95	0.98	10	8	...
Richmond Estate ...	1.22	0.80	10	5	2.24
Llandovery ...	1.40	1.15	10	3	2.03
Runaway Bay ...	0.50	0.50	11	1	...
Brown's Town ...	3.91	1.26	17	7	2.68
Alexandria ...	3.00	0.55	21	8	...
Chewmagna, St. Ann ...	3.63	0.67	25	12	3.07
Home Castle ...	4.20	1.10	22	7	2.16
Richmond Pen ...	5.55	1.50	25	9	2.90
Mahogany Hall ...	11.58	2.60	28	13	4.35
Barnstaple ...	8.90	3.75	28	7	...
Brampton Bryan ...	...	...	...	...	...
Bryan Castle ...	2.70	0.68	28	8	1.81
Braco ...	2.15	0.90	25	5	1.69
Arcadia ...	3.66	0.84	9	11	2.00
Lancaster ...	2.02	0.43	9	8	1.99
Harmony Hall ...	1.68	0.49	25	8	1.56
Vale Royal ...	3.08	1.00	10	9	2.87
Colchis Pen ...	5.12	1.40	9	14	3.18
Swanswick ...	4.53	1.49	9	19	...
Georgia ...	...	...	..	..	...
Long Pond ...	...	...	..	..	..
Hyde Hall ...	...	...	..	..	...
Steelfield ...	...	...	..	..	...
Etingdon ...	...	...	..	..	...
Lottery ...	2.65	0.85	18	8	2.33
Falmouth ...	2.93	1.30	25	9	1.64
Florence Hall ...	0.88	0.69	25	5	...
Good Hope ...	5.89	1.05	28	15	...
Unity ...	6.37	1.18	25	14	..
Kent ...	..	..	..	..	...
Gales Valley ...	..	..	.	..	...
Canaan ...	8.92	1.60	25	14	4.18
Content ...	..	..	..	..	...
Bellfield ...	3.72	1.05	25	10	...
Guilsbro ...	12.18	3.48	28	20	4.55
Glasgow ...	6.39	1.72	28	12	...
Moor Park ...	6.68	2.45	28	12	2.57
Rose Hall ...	..	..	..	..	...
Running Gut ...	..	..	..	..	...
Cinnamon Hill ...	..	..	..	.	...
Success ...	..	..	..	..	...
Montego Bay ...	4.06	1.45	27	7	3.41
Catherine Hall ...	3.70	0.95	28	8	4.08
Retirement ...	5.05	1.46	28	15	...
King Gate ...	7.09	1.33	31	14	5.59
Round Hill ...	4.55	2.50	...	20	3.81
Blue Hole ...	9.07	2.65	18	12	...
Haughton Court ...	4.23	1.35	18	8	...
Lucea ...	5.79	1.12	18	9	5.50
Green Island, Police St. ...	13.71	2.54	20	21	...
CENTRAL SUB-DIVISION.					
Headworks, Rio Cobre ...	2.33	0.62	28	6	3.70
Linstead ...	15.76	4.30	24	22	5.93
Berkshire Hall ...	7.64	1.40	8	17	4.65
Point Hill ...	11.08	3.36	15	17	6.57
Marlie Hill ..	14.04	5.98	15	10	...
Worthy Park ...	..	...	...	...	...
Croft Hill ...	5.02	0.84	16	11	...
Chapelton ...	3.84	0.95	15	11	3.65
Danks Works ...	5.02	1.09	15	18	3.48
Savoy House ...	4.66	0.80	15	18	3.15
Crooked River ...	5.05	1.85	16	10	...
Trout Hall ...	5.38	1.98	15	13	...
Frankfield ...	6.96	1.50	15	10	...
Cave Valley ...	...	..	...	...	...
Means ...	4.97	...	...	...	...

WEST-CENTRAL DIVISION.	JULY, 1915. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Whitney ...	4.30	1.70	10	9	3.94
Mocho, Clarendon ...	2.50	0.90	5	12	...
Baillieston ...	3.65	1.29	12	10	4.49
Brokenhurst ...	3.90	0.90	12	12	6.00
Christiana ...	...	...	...	...	...
Chudleigh ...	3.46	0.80	18	15	...
Shooter's Hill ...	6.92	3.51	15	17	...
Spitzbergen ...	3.61	0.67	19	12	...
Kendal, Manchester ...	6.56	3.85	15	8	5.45
Marshalls Pen ...	2.66	0.94	15	6	4.94
Mandeville ...	3.18	0.74	8	9	5.91
Carlton, Mandeville ...	2.69	0.54	7	11	5.91
The Hill ...	1.15	0.44	12	6	...
Fairfield, Manchester ...	1.23	0.23	8	14	3.05
Ulster Spring ...	9.14	3.25	16	10	4.45
Freeman's Hall ...	7.79	3.60	16	13	...
Albert Town ...	7.27	2.50	16	13	...
Lowe River ...	9.58	2.18	10	13	3.34
Troy ...	4.90	1.00	28	9	7.11
Windsor Pen, Trel. ...	10.22	2.95	28	19	6.65
Medina ..	3.95	1.71	27	6	...
Wallingford ...	4.13	1.04	26	10	...
Balaclava Police Station ...	3.99	1.20	27	12	4.71
Siloah ...	6.40	1.65	28	12	6.86
Appleton Estate ...	...	...	...	...	...
Maggotty ...	7.19	1.42	19	11	8.15
Butlers ..	6.48	1.29	19	14	...
Dromilly Pen ...	7.93	1.33	26	17	...
Spring Vale ...	13 25	2.30	25	16	8.33
Garland ...	...	...	..	...	...
Mocho, Catadupa ...	...	...	...	...	...
Springfield, St. Elizabeth	4.86	0.83	24	10	...
Chesterfield, St. James ...	...	...	...	...	...
Catadupa Rly. Station ...	15.06	3.25	24	20	...
Kempshot ...	6.28	1.37	28	17	6.21
Cambridge, St. James ...	14.80	2.30	16	24	...
Ducketts ...	...	...	...	...	...
New Market, Police St. ...	3.38	0.95	12	10	...
The Bog, New Market ...	7.09	1.29	14	14	...
Kew Park ...	...	...	..	.	...
Knockalva ..	8.51	1.20	7	23	...
Ramble ...	10.02	2.25	20	16	...
Petersville ...	4.43	1.19	20	13	7.17
Darliston ...	8.75	1.44	28	20	11.87
Bluefields ...	6.47	1.71	10	11	10.47
Whithorn ...	14.30	2.60	9	21	10.73
Water Works Pen ...	15.29	2.30	24	19	...
Great Valley, Han. ...	19.96	4.15	28	16	10.24
Prospect Park ...	...	...	...	...	...
Blackheath ...	11.47	2.40	9	18	...
Fontabelle, Westm. ...	13.72	2.30	10	17	9.00
Belleisle ...	...	...	...	...	...
Morgan's Bridge ...	17.87	2.46	24	22	11.16
King's Vale Police St. ...	15.98	1.90	15	23	10.74
Means ...	8.02	...	...	...	...

SOUTHERN DIVISION.	JULY, 1915. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	2.68	0.77	27	18	3.23
Elliott Hill ...	4.03	0.70	21	22	...
Pleasant Hill ...	3.74	0.69	20	23	...
East Prospect ...	6.39	2.22	20	22	...
Morant Bay ...	5.29	0.94	22	23	5.80
Easington ...	5.97	1.75	10	16	6.22
Bull Bay ...	0.00	...	...	...	2.46
Gordon Town ...	1.30	0.50	10	4	2.62
Hope Gardens ...	2.45	...	...	...	..
King's House Gardens ...	2.74	...	...	...	..
Melrose ...	2.64	0.72	27	8	...
Halfway Tree ...	2.17	0.52	8	5	1.85
Lunatic Asylum ...	0.72	0.45	10	4	1.51
Upper Elletson Road ...	0.81	0.41	10	5	...
Kingston P. W. Office ...	0.42	0.31	10	3	1.81
Plumb Point L. H. ...	1.08	0.50	10	5	1.94
Clifton Pen ...	1.10	0.50	27	4	...
Quarantine Station ...	1.25	0.78	10	3	...
Spanish Town ...	0.44	0.44	10	1	2.48
Hog Hole, St. Catherine...	0.77	0.58	10	2	2.67
Hartlands ...	1.34	0.95	11	2	0.75
Belmont, Guanaboa Vale	3.87	1.66	13	11	..
Old Harbour ...	0.85	0.85	10	1	2.57
May Pen ...	1.38	0.86	10	2	3.72
Hillside ...	...	...	...	...	...
Moreland ...	...	...	...	...	...
Money Musk ...	...	...	...	...	...
Dunkley's, Vere ...	1.27	0.80	10	3	2.32
Dry River " ...	1.24	0.88	10	3	...
Denbigh ...	1.10	1.00	17	2	2.99
Toll Gate ...	1.57	0.81	10	5	...
Woodleigh ...	1.09	1.00	17	2	...
New Yarmouth ...	1.17	0.91	10	2	2.42
Exeter, Vere ...	...	...	...	...	..
Rhymesbury ...	1.43	1.27	10	3	2.28
Milk River ...	...	...	...	...	...
Clarendon Pk. Ry. St. ...	...	...	...	...	...
Victoria Town ...	2.10	1.45	10	3	2.61
Hog Hole, S. Manch. ...	1.88	1.20	10	5	...
Stone's Hope ...	1.24	0.77	10	3	4.30
Newport, Manchester ...	2.10	0.64	10	14	3.73
Great Valley, Man. ...	1.48	0.70	10	5	3.27
Alligator Pond ...	1.24	0.54	10	3	2.43
Southfield, St. Elizabeth ...	1.33	0.54	10	4	...
Lititz ...	0.80	0.26	12	6	...
Long Hill ...	...	...	...	..	...
Torrington ...	0.00	...	...	...	2.64
Bethlehem, St. Eliz. ...	1.87	0.65	27	6	3.04
Santa Cruz ...	7.14	1.81	15	9	5.27
Pedro Plains Police St. ...	0.44	0.34	12	2	1.48
Mountainside ...	2.24	1.56	27	6	...
Black River ...	8.08	1.90	16	13	4 82
Font Hill ...	7.90	1.70	15	13	5.73
Mount Edgecombe ...	4.07	0.97	10	14	6.93
Sweet River ...	12.20	1.80	13	13	7.52
Windsor, Sav.-la-mar ...	13.30	2.55	9	16	6.91
Orchard ...	12.83	2.96	9	19	...
Sav.-la-mar ...	11.04	1.27	10	14	5.84
Meylersfield ...	9.07	2.15	28	13	...
Little London ...	6.74	1.56	19	15	...
Retreat ...	9.67	1.43	15	15	7.65
Negril Point L.H. ...	7.13	1.97	15	17	5.90
Means ...	3.44	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

Divisional and Island Rainfall.	July. 1915.	July. Average.
	In.	In.
North-Eastern Division ...	6.84	6.28
Northern „ ...	4.97	3.21
West-Central „ ...	8.02	7.85
Southern „ ...	3.44	3.59
The Island ...	5.82	5.23

The rains were fairly evenly distributed, but there were some marked irregularities.

At Moore Town over 17 inches fell while no rain fell at Bull Bay and at Torrington.

Shocks of Earthquake in July, 1915.

Date.	Standard Time (Approx.)	Intensity.	Notes: where felt, etc.
	hr. min.		
23	4 0 a.m.	I	Mt. Holstein, N.E. & S.W. 0.006
		II	Cedar Valley, N. & S.
		II	Morant Bay.

NOTES.

The times given for the shock on the 23rd differ considerably. At Cedar Valley three shocks were felt. B_3 was due July 22.3; and this shock seems to have stirred P, due July 20.8, or B_2 due July 20.1, or both.

It is requested that for the future all communications to the Weather Office may be addressed to the Montego Bay P.O.

MAXWELL HALL,
Government Meteorologist.

Montego Bay P.O.

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OCT 18 1915

No. 445.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

AUGUST, 1915.

The Bar. pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.922	29.890	82.6	84.7	86.8	79.5	7.3	89.0	28	74.0	23	15.0
Kingston ..	24	29.891	29.864	77.6	85.5	90.1	74.6	15.5	93.5	3	71.6	17	21 9
Negril Point Light House ..	33	29.881	29.852	79.3	85.2	88.3	74.0	14.3	90.5	17	71.7	7	18.8
Castleton Gardens ..	496	..	..	71.6	84.3	88.1	70.7	17.4	93	8	68	2*	25
Hope Gardens† ..	668	29.907	29.844	75.3	84	89.4	70.6	18.8	93	8*	68	16	25
Stony Hill Indus. School ..	1,400	..	..	72.6	80.8	85.5	69.4	16.1	90	2	68	4*	22
Hill Gardens ..	4,900	25.259	25.248	64.5	67.3	71.2	59.3	11.9	76	19*	58	1*	18

Stations.	Elevation.	Dew Point and Humidity. 7 a.m.		3 p.m.		Rainfall.	Wind per diem.	Wind: direction from and miles per hour. 7 a.m.		3 p.m.		Amount of Cloud. Lower, Middle and Upper. 7 a.m.			3 p.m.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	75.5	79	75.5	74	9.08	293	N.E. by E.	13	N.E.	12	2.2	1.3	1.3	2.2	1.6	1.4
Kingston ..	24	71.2	81	74.0	69	6.24	207	ENE.	6.7	SE.	14.4	1.2	1.0	3.0	4.0	1.8	2.0
Negril Point Light House‡ ..	33	73.4	83	76.2	74	8.75	256	E.	11.5	S.W.	13.0	0.6	0.4	3.5	1.0	7.1	0.6
Castleton Gardens ..	496	69.8	93	73.8	72	28.01	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	68.6	82	73.5	72	18.17	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	69.7	90	73.0	77	19.84	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	59	81	64	90	31.44	..	..	..	..	..	..	..	..	..	..	..

* and on other days † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.

‡ Negril Point Light House. Wind 11 p.m. E.NE 9.0

Plumb Point Light House { Average No. of Miles of wind per diem 299; Greatest on the 13th 730; Least on the 25th 71

THE RAINFALL.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	AUGUST, 1915. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	14.87	6.00	12	13	7.17
Spring Valley, Portland ...	13.30	2.80	13	15	.
Bath ...	19.04	6.06	12	18	10.01
Boston ...	7.05	1.55	30	10	8.15
Moore Town ...	22.33	7.65	12	15	15.54
Port Antonio ...	11.25	3.90	12	16	10.76
Fellowship ...	17.89	6.20	12	21	14.28
Windsor, Portland ...	...	...	...	...	...
Johnson River Bridge ...	19.17	7.21	12	18	10.02
Shrewsbury ...	14.56	4.50	12	12	8.64
Cedar Valley, St. Thos. ...	29.74	11.30	12	8	9.76
Hope Bay ...	8.60	2.15	12	11	..
Moy Hall, St. Thos. ...	33.90	16.21	12	13	7.96
Brooklodge ...	30.21	16.50	12	11	...
Lennox ...	12.00	5.50	12	14	...
Farm Hill ...	40.46	18.90	13	9	5.83
Hill Gardens ...	31.44	...	...	...	7.92
Buff Bay ...	4.00	1.00	23	7	5.70
Vinery ...	7.69	3.60	12	10	..
Windsor Castle, Port. ...	5.74	1.40	6	6	...
Greenvale, Portland ...	13.59	5.58	12	11	...
Mt. Holstein ...	15.46	6.21	12	20	6.69
Irish Town ...	16.46	11.00	12	6	5.96
Rose Hill ...	21.61	6.10	12	16	...
Hardware Gap ...	20.35	..	...	...	6.73
Stony Hill Ind. School ...	19.84	10.00	12	13	9.44
Castleton Gardens ...	28.01	..	...	...	10.03
Lawrence Tavern ...	24.47	8.70	12	12	...
Cedar Valley, Red Hills ...	18.37	7.57	12	9	...
Carew Castle ...	24.47	8.12	12	21	10.50
Agualta Vale ...	7.52	3.75	12	13	...
Water Valley ...	10.80	4.44	12	17	4.40
Albany, Ry. Station ..	...	...	...	...	...
Platfield ...	18.05	6.22	13	13	...
Richmond, St. Mary ...	13.61	3.84	12	13	4.97
Hampstead, St. Mary ...	11.33	3.78	12	15	...
Troja ...	..	...	...	...	...
Guy's Hill ...	10.04	4.60	12	8	...
Lucky Hill ...	11.69	3.40	12	13	...
Rio Hoe ...	13.48	4.77	23	11	6.27
Unity Valley ...	21.59	7.30	13	17	6.49
Moneague ...	18.56	6.00	12	15	6.03
Claremont ...	12.26	4.90	13	8	5.53
Albion, St. Ann ...	12.69	5.50	12	11	6.10
Averham Park ...	10.74	6.38	12	8	4.86
Means ...	18.63	...	...	...	...

NORTHERN DIVISION.	AUGUST, 1915. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In	In.			In.
Port Maria ...	10.83	3.84	12	14	4.72
Ocho Rios ...	5.58	2.00	13	7	2.72
Bogue, Ocho Rios ...	...	...	...	...	...
Rockfield ...	8.25	5.25	13	9	..
Drax Hall ...	5.75	3.75	11	7	3.59
Liberty Hill ...	7.44	3.00	12	10	...
St. Ann's Bay ...	4.78	2.05	13	12	2.65
Seville ...	6.21	3.00	13	6	3.55
Richmond Estate ...	4.70	1.87	13	11	3.36
Llandovery ...	4.05	1.38	13	6	2.86
Runaway Bay ...	2.35	1.20	13	4	...
Brown's Town ...	9.07	3.03	12	7	3.98
Alexandria ...	13.11	4.30	13	7	...
Chewmagna, St. Ann ...	13.60	4.50	13	13	5.24
Home Castle ...	4.65	1.75	13	8	3.61
Richmond Pen ...	12.00	3.90	13	11	4.89
Mahogany Hall ...	6.59	2.54	13	6	5.85
Barnstaple ...	5.35	2.27	12	4	...
Brampton Bryan ...	...	...	...	...	...
Bryan Castle ...	4.75	1.50	12	9	2.88
Braco ...	4.05	1.40	12	7	2.89
Arcadia ...	5.58	2.30	12	6	3.54
Lancaster ...	5.36	2.04	12	7	3.21
Harmony Hall ...	4.05	1.67	12	8	2.57
Vale Royal ...	4.60	3.25	12	5	4.54
Colchis Pen ...	5.10	1.40	12	13	5.32
Swanswick ...	6.13	3.20	12	9	...
Georgia ...	4.37	1.85	12	7	3.67
Long Pond ...	4.47	2.50	12	7	3.59
Hyde Hall ...	4.25	2.60	12	3	4.00
Steelfield ...	3.44	1.88	12	5	3.63
Etingdon ...	...	...	..	..	...
Lottery ...	4.95	2.00	12	7	3.56
Falmouth ...	5.55	2.10	13	7	2.77
Florence Hall* ...	5.11	4.00	12	4	...
Good Hope ...	8.05	2.50	13	11	..
Unity ...	12.97	3.11	13	12	...
Kent ...	6.17	3.50	12	6	3.04
Gales Valley ...	..	..	..	..	...
Canaan ...	16.59	7.20	12	10	..
Content ...	6.11	2.24	13	6	4.13
Bellfield ...	4.81	1.46	12	10	...
Guilsbro ...	12.56	4.00	23	18	...
Glasgow ...	11.06	4.00	12	10	...
Moor Park ...	8.41	2.45	12	10	4.75
Rose Hall ...	4.70	2.55	12	5	1.91
Running Gut ...	4.35	2.45	12	5	2.59
Cinnamon Hill ...	4.28	2.50	12	5	2.18
Success ...	5.04	3.22	12	5	2.12
Montego Bay ...	...	..	..	..	...
Catherine Hall ...	...	..	..	..	...
Retirement ...	13.61	4.65	12	13	...
King Gate ...	..	..	..	..	...
Round Hill ...	..	..	..	..	...
Blue Hole ...	..	..	..	..	...
Haughton Court ...	8.82	4.29	12	10	...
Lucea ...	...	..	..	..	...
Green Island, Police St. ...	11.68	3.52	13	19	...
CENTRAL SUB-DIVISION.					
Headworks, Rio Cobre ...	11.20	3.20	12	13	5.75
Linstead ...	22.16	4.50	13	19	8.22
Berkshire Hall ...	12.27	4.30	12	13	5.51
Point Hill ...	18.19	3.50	13	17	12.37
Marlie Hill ..	14.03	5.50	13	14	...
Worthy Park ...	10.67	2.62	4	9	5.49
Croft Hill ...	18.04	8.00	13	12	...
Chapelton ...	13.07	4.20	13	14	6.81
Danks Works ...	11.44	4.17	13	19	5.84
Savoy House ...	13.79	5.82	13	18	6.04
Crooked River ...	17.53	7.00	13	16	...
Trout Hall ...	18.05	7.75	13	13	...
Frankfield ...	...	...	...	...	...
Cave Valley ...	18.22	10.50	13	15	7.25
Means ...	7.77	...	...	...	...

* Gauge overflowed.

West-Central Division.	August, 1915. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Whitney ...	15.25	5.10	13	13	...
Mocho, Clarendon ...	12.75	3.90	13	10	...
Baillieston ...	13.92	3.72	13	14	6.45
Brokenhurst ...	...	...	...	...	...
Christiana ...	...	...	...	...	...
Chudleigh ...	28.78	7.39	13	21	...
Shooter's Hill ...	22.74	8.08	13	21	...
Spitzbergen ...	24.00	6.30	13	18	...
Kendal, Manchester ...	29.17	9.65	13	17	6.80
Marshalls Pen ...	18.70	5.72	13	16	8.38
Mandeville ...	22.40	8.54	13	15	8.03
Carlton, Mandeville ...	13.74	5.85	13	14	8.03
The Hill ...	17.98	8.14	13	12	...
Fairfield, Manchester ...	19.41	8.86	13	19	5.37
Ulster Spring ...	19.85	5.10	13	6	6.91
Freeman's Hall ...	16.66	3.70	13	13	...
Albert Town ...	11.75	2.00	13	14	...
Lowe River ...	17.60	5.10	13	10	7.19
Troy ...	13.90	8.80	12	12	10.07
Windsor Pen, Trel. ...	11.77	4.48	13	17	8.42
Medina ..	17.80	4.95	13	16	...
Wallingford ...	17.34	6.89	15	15	...
Balaclava Police Station ...	16.15	5.97	13	13	7.02
Siloah ...	18.60	4.70	13	19	11.60
Appleton Estate ...	20.79	5.05	28	17	10.88
Maggotty ...	16.30	4.03	13	...	10.65
Butlers ..	15.67	5.30	13	15	...
Dromilly Pen ...	16.59	5.11	23	12	...
Spring Vale ...	23.81	7.75	23	13	11.61
Garland ...	...	...	..	...	...
Mocho, Catadupa ...	...	...	...	...	...
Springfield, St. Elizabeth	20.28	6.16	13	20	4.74
Chesterfield, St. James ...	...	...	...	...	...
Catadupa Rly. Station ...	28.51	5.55	13	22	...
Kempshot ...	11.07	4.73	12	15	8.61
Cambridge, St. James ...	...	...	...	...	...
Ducketts ...	...	...	...	...	...
New Market, Police St. ...	16.61	1.85	13	17	...
The Bog, New Market ...	21.91	4.00	12	23	...
Kew Park ...	23.83	3.75	23	24	11.65
Knockalva ..	18.77	5.83	13	21	...
Ramble ...	...	...	...	...	...
Petersville ...	20.46	6.89	13	17	10.56
Darliston ...	...	...	...	...	...
Bluefields ...	23.68	5.34	31	22	11.72
Whithorn ...	21.21	3.50	5	22	11.74
Water Works Pen ...	18.90	3.75	13	18	...
Great Valley, Han. ...	6.08	4.60	13	16	11.79
Prospect Park ...	...	...	...	...	...
Blackheath ...	12.18	3.90	13	14	...
Fontabelle, Westm. ...	17.93	5.83	31	13	11.23
Belleisle ...	...	...	...	...	...
Morgan's Bridge ...	20.95	5.87	31	18	11.70
King's Vale Police St. ...	13.97	5.00	11	19	10.76
Means ...	18.22	...	...	...	...

Southern Division.	August, 1915. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	9.08	3.30	12	15	5.31
Elliott Hill ...	10.82	3.09	13	...	...
Pleasant Hill ...	13.28	4.11	12	18	...
East Prospect ...	12.70	3.84	31	13	...
Morant Bay ...	14.31	4.44	31	17	5.68
Easington ...	13.21	3.96	31	10	6.17
Bull Bay ...	10.12	3.75	12	6	2.82
Gordon Town ...	20.72	9.00	12	10	4.47
Hope Gardens ...	18.17	...	...	...	5.29
King's House Gardens ...	12.75	...	...	...	5.67
Melrose ...	10.85	4.32	12	7	...
Halfway Tree ...	11.52	3.50	12	8	3.54
Lunatic Asylum ...	6.29	2.70	13	8	2.59
Upper Elletson Road ...	8.36	3.06	12	12	...
Kingston P. W. Office ...	6.24	1.51	13	8	3.88
Plumb Point L. H. ...	6.73	2.85	13	8	3.50
Clifton Pen ...	9.72	2.75	13	7	..
Quarantine Station ...	5.35	1.93	13	6	..
Spanish Town ...	7.01	2.10	12	8	4.04
Hog Hole, St. Catherine...	7.39	2.24	12	9	4.53
Hartlands ...	5.90	1.60	13	6	3.21
Belmont, Guanaboa Vale	12.82	3.85	12	9	...
Old Harbour ...	4.98	1.05	12	10	4.66
May Pen ...	9.36	2.19	12	10	4.79
Hillside ...	...	...	...	...	...
Moreland ...	...	...	...	...	...
Money Musk ...	4.18	1.48	31	6	...
Dunkley's, Vere ...	6.43	1.92	13	9	4.25
Dry River " ...	5.49	1.65	13	7	...
Denbigh ...	10.00	5.00	13	8	4.92
Toll Gate ...	14.24	4.29	31	15	...
Woodleigh ...	11.90	5.50	13	8	...
New Yarmouth ...	6.25	1.76	13	10	3.86
Exeter, Vere ...	4.09	1.21	31	8	3.64
Rhymesbury ...	9.19	2.35	31	14	4.52
Milk River ...	5.60	2.60	31	6	5.26
Clarendon Pk. Ry. St. ...	15.04	3.82	51	16	...
Victoria Town ...	11.75	2.96	13	13	4.05
Hog Hole, S. Manch. ...	16.21	5.90	13	12	..
Stone's Hope* ...	16.75	5.89	13	8	5.99
Newport, Manchester ...	20.79	9.17	13	18	5.39
Great Valley, Man. ...	16.74	6.45	13	11	4.49
Alligator Pond ...	10.09	4.22	13	6	3.08
Southfield, St. Elizabeth ...	15.07	7.68	13	11	...
Lititz ...	11.06	3.35	13	12	...
Long Hill ...	...	...	...	...	...
Torrington ...	19.77	8.00	12	9	4.55
Bethlehem, St. Eliz. ...	18.73	6.83	13	...	4.99
Santa Cruz ...	16.71	6.07	13	18	8.62
Pedro Plains Police St. ...	7.31	2.40	13	10	2.53
Mountainside ...	12.64	5.10	13	14	...
Black River ...	13.44	4.50	13	19	5.95
Font Hill ...	12.30	3.30	13	16	6.06
Mount Edgecombe ...	16.29	2.95	31	19	8.19
Sweet River ...	19.00	3.80	13	15	8.75
Windsor, Sav.-la-mar ...	19.17	3.83	31	16	7.38
Orchard ...	18.82	4.86	31	17	...
Sav.-la-mar ...	15.28	4.52	31	15	7.49
Meylersfield ...	15.07	6.64	31	9	...
Little London ...	14.22	7.37	31	9	...
Retreat ...	12.08	3.80	31	9	8.70
Negril Point L.H ...	8.75	3.17	13	15	6.76
Means ...	11.78	...	...	...	...

*Gauge blown away

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

Divisional and Island Rainfall.	August. 1915.	August. Average.
	In.	In.
North-Eastern Division ...	18.63	7.71
Northern „ ...	7.77	4.83
West-Central „ ...	18.22	9.88
Southern „ ...	11.78	5.14
The Island ...	14.10	6.89

The heavy rainfall was due to the hurricane which passed along the northern shores of Jamaica, on the 12th and 13th and to the depression which passed along the southern shores on the 31st.; but it was very unevenly distributed.

The upper valleys of the Morant and Yallahs Rivers south of the Blue Mt. range had between 30 to 40 inches.

The Blue Mountain Range and as far west as Linstead, the Manchester Mts., and the undulating country between Catadupa and Grange Hill had 20 to 30 inches; and the rest of the island had 10 to 20 inches, excepting the extreme northern and southern shores.

The heaviest rainfall occurred at Farm Hill and a copy of the register is here given:

Aug.	m.
7th	0.50
12th	7.50
13th	18.90
14th	4.50
16th	0.51
21st	0.10
23rd	1.75
27th	1.20
31st	5.50
Total ...	40.46

Shocks of Earthquake in August, 1915.

Date.	Standard Time (Approx.)	Intensity.	Notes: where felt, etc.
	hr. min.		
12	5 30 p.m.	I	Scotts Hall.
	midnt.	I	Ness Castle; near Cedar Valley
13	2 0 a.m.	I	Dry Harbour.
27	2 43 p.m.	I	Kingston; lasted 1 sec.
			Moy Hall, N. & S.

NOTES.

The earthquake of the 12th and 13th were probably due to the passing hurricane. That on the 27th was from H. due 26.1.

It is requested that for the future all communications to the Weather Office may be addressed to the Montego Bay P.O.

MAXWELL HALL,
Government Meteorologist.

Montego Bay P.O.

REPORT ON THE HURRICANE OF AUGUST 12TH AND 13TH, 1915.

The following warnings were issued by the United States Weather Bureau and were posted at all the Telegraph Stations in Jamaica:—

Aug. 10th 4 p.m. "Tropical disturbance near Dominica moving west-north-west."

Aug. 11th 4 p.m. "Severe tropical disturbance at 8 a.m. appa ently central near Island of St. Croix, moving west-north-w st at 18 or 20 miles an hour Wi l probably cross San Domingo or Haiti reaching south-east of Cuba Thursday night or Friday."

At 7 a.m. Aug. 12th Mr. J. F. Brennan issued the following local warning telegram:—
"Hurricane apparently south of Haiti now following a more westerly track in the direction approaching east of Jamaica. Every precaution advised."
And at 2 p.m. and at 4.30 p.m. similar warnings were received from the U.S. Weather Bureau and were circulated in Jamaica.

But before these last two warnings we e issued the east end of Jamaica was swept by a northerly gale as the centre of the cyclone moved on its course, which was nearly parallel to the north-eastern shores of Jamaica, but 15 or 20 miles further north. The general direction of its course is shown in chart (1)*, where the dates mark the approxima e positions of the centre at noon; and from Dominica to Jamaica the centre moved along its course at he rate of 19 miles an hour; it subsequen ly moved at a slower rate passing near Cayman Brac at 11 a.m. 13th, and reaching Galveston about mid-day August 16th.

Charts (2) and (3) show its course near Jamaica, and its position at 11 p.m. August 12th and at 5 a.m. August 13th re p ctively. The arrows fly with the wind, and the number of feathers on an arrow indicate its strength according to the Beaufort scale.

It was therefo e the north side of the Island which suffered most, and the sea driven ashore by the northerly winds swept away everything within its reach: wharves, houses, roads, bridges, and even a part of the railway track, all of course on or near the beach; and as all the towns and villages from Manchioneal to Falmouth suffered to a greater or less degree, the total damage was ve y great although the wind barely reached hurricane force, namely, No. 12 on the Beaufort Scale.

The following account of the storm as experienced in Port Maria was given in "The Daily Gleaner."

"This town has be n visited by one of the most disastrous blows and washouts that have yet be n chronicled. All during Thursday warnings of an approaching storm were being given out by the genial and obliging Post Office Staff, and all necessary precautions that could have been taken by he shipping, were resorted to.

As the evening advanced and twilight approached there was the unmistakable veering of the wind and the orange-coloured clouds coming from a north-westerly direction which gave certainty to the belief that we were in for a terrible experience. The wind commenced to freshen up and some liv ly gusts came rushing by as the heralds of destruction. Faster and faster did the clouds move, now north east, now north-west and by the time night had closed in on us, all minds were made up that we were in for either a storm or a hurricane.

The sea began to be boisterous, and occasionally there would be seen a big wave which when it burst would come rushing into the streets. Fiercer and fiercer blew the winds and more boisterous became the sea, and by nine o'clock the greater section of the town was in a state of pandemonium. All during the night "calls for help" could be heard and it can truthfully be said that, but for the vigilance and energy of the police and the willingness of the men of the town to help when and wherever needed, the loss of life would have been appalling The Rev. James rendered yeoman service in rescuing the unfortunates and rang the bell of the Baptist Chapel late into the night as a warning that he had placed the sacred edifice at the disposal of those who needed help. The Town Hall and Court House too had to be resorted to and these buildings were packed to their utmost capacity. The more fortunate residents—those whose homes were not threatened by the fury of the waves—also threw their doors open to help their neighbours. The Presbyterian Kirk had also to be resorted to by those persons living in that vicinity. The sea in the vicinity of Hotel Manning rose on several occasions during the night to fully the height of the balcony of the hotel and a really terrible night it was. Houses were to be seen being carried along the Main Street like canoes, and at day break, Friday, a sorry state of things was witnessed. Houses from the sea shore were to be seen fu ly a quarter of a mile away in the Frontier banana walk, and the scene from Mr. Wilson's drug store along Main Street to Kerr & Co's. wharf was one continuous mass of wreckage. All the wharves and wharf houses and sheds have been completely destroyed, and between 250 and 300 persons rendered homeless. The surf and whale boats were all to be seen wholly or partially smashed on the opposite side of the street, and many of them formed breakwaters, which greatly assisted in saving some of the building s which escaped destruction."

* This plate was prepared at the Government Printing Office from a drawing by Mr. J. F Brennan.

And at Annotto Bay things were just as bad. The following account is taken from "The Daily Chronicle."

"A few warnings from the Weather Bureau on Thursday, and a sullen sky in the direction of the sea and heavy roaring billows were the only hints that Annotto Bay—a busy and flourishing seaport of St. Mary—had of a visitation which left death and destruction in its wake—altering a portion of the town entirely.

The wind gradually began to come up in the morning, and fishermen and boat owners took the precaution of having their boats moored to places of apparent safety. At 5.30 o'clock in the evening the sea commenced to run high and simultaneously the velocity of the wind increased by degrees. All the residents feared a hurricane, but little did they think that it would be so destructive. The wind started from the north and continued so for the first portion of the night until 1.30 to 2 o'clock when it veered to the southeast. Then it was at its highest. It was then, with the help of the sea, damage was done, and to the poorer classes, wharf labourers and so on—damage almost irreparable. The sea, leaving its limits, inundated the lower portion of the town known as Bottom Bay and played havoc in that section. The people, on observing the rapid advance of the tide, which was coming with alarming force, hurriedly began to vacate their homes, and had they not done so in quick time, there would undoubtedly have been a heavy death list. With a broad expanse of sea before, a swamp behind and a river to the west, their plight was unenviable. With ever-increasing fury the billows lashed the beach and in a few minutes had mounted over; then the water crossed over a lagoon running parallel, washed over the retaining wall and was soon in the main road. It was a terrifying sight to see buildings being thrown against each other by the sea and with all their contents smashed and flung into the swamp behind, while their occupants up to a few minutes before, were now refugees fleeing to where they knew not. A large number of the houses cannot be located, while the site on which several stood is at present a waste of sand. The road through the entire sea-swept area is unrecognizable, while what was once a lagoon now forms a portion of the beach.

The homeless took shelter for the night in the Baptist Chapel, Police Station, United Fruit Co.'s store, on the store piazzas, and under whatever building that could afford protection from wind, storm and sea."

In many respects this storm was very similar to that of Aug. 11th 1903, of which the writer gave a full account with charts in the U.S. Monthly Weather Review for Sept., 1905. The centre of that storm passed through the Island from near the Morant Point Light House to Montego Bay, and on to the Grand Cayman Island, and Yucatan; it moved at much the same rate as the one under consideration, and the following remark made with reference to that storm is also applicable to this one of 1915:— "In many low-lying places the wind drove the sea ashore; and there is reason to suppose that had the centre been moving slowly instead of at the high rate of 20 miles an hour, there would have been appalling loss of life from the invading sea."

With regard to the damage done in the Island generally, I cannot do better than quote the remarks of His Excellency the Governor as President of the Agricultural Society at a meeting of the Board on August 19th as reported by "The Daily Gleaner."

"The President said perhaps he might be expected to say something on this occasion with regard to the recent storm. Information had no doubt been in the possession of all the members of the Board of Management of the fact that in most of the parishes between 80 and 90 per cent. of the bananas were stated to be down. There were certain small areas, however, where the loss was not so great, but they might take it that in the majority of places in the island the loss of the present banana crop was between 80 and 90 per cent. As regards coconuts the loss that had been sustained would not be more than one per cent. As regards cocoa he understood that very little damage had been done, and that damage was principally due to banana trees being blown down on the cocoa trees. With respect to root crops—yams, etc.—he understood that in some districts there had been considerable damage, and this was due to the poles being blown down. But this had not been general. In other districts he had been informed that root crops had not suffered to any great extent. With regard to buildings, with the exception of a few cases, hardly any damage had been done and nothing compared with that caused by the last two hurricanes—the one in 1903 and the other in 1912. As regard the sea coast, from Manchioneal right around to Falmouth, very serious damage had been done. In Manchioneal, the storm had damaged the United Fruit Company's wharf, and the damage was principally confined to smaller buildings—eight in number. In Port Antonio a certain amount of damage had also been done to smaller houses, but no great damage to larger buildings. When they left Port Antonio around the sea coast to Annotto Bay, they found that a number of larger houses had been destroyed, in addition to many smaller buildings, as also the wharf premises. In the smaller towns, such as Hope Bay, St. Margaret's Bay, there had been considerable damage done, and the destruction of smaller houses. Some of the houses had been lifted from their foundation by the sea. The damage at Buff Bay was more than what it had been in either St. Margaret's Bay or Hope Bay. At the latter place the damage was not only to smaller houses but also to larger ones. In some cases the larger houses had been lifted by the sea right across the road and those along the sea coast were carried away. There was also much damage to the wharves at Buff Bay At Annotto Bay considerable damage had also been done. The United Fruit Company's wharf was also damaged and several of the smaller houses. Some of them were lifted from their foundation and carried inland. In Port Maria there was much damage along the sea coast. All the wharves were destroyed and the incoming of the sea had done damage to a number of houses. The damage, generally, was considerable. Further along the coast, embracing Oracabessa and Ocho Rios considerable damage had also been done. At St. Ann's Bay the wharves and wharf houses were damaged, and from this point right on to Falmouth much damage was done. The houses built on the sea coasts were either destroyed

or lifted up and carried some distance from their original position. In Trelawny, principally Falmouth, much damage had also been occasioned to wharves and wharf houses. At Montego Bay, except for some slight damage to the United Fruit Company's wharf, and the Government Pier, the damage was comparatively small.

With regard to the roads, the most serious damage done was in respect to those roads along the sea coast. Starting from Port Antonio right along the roads along, the sea coast had been swept away, and this was the case right around the coast to a point beyond Falmouth. The Public Works Department had been busy making a track for buggies to go over, but he was afraid that it would be some time before motor traffic could go over the roads, but it was hoped to get communication as soon as possible. A great deal of damage to the roads had been due to an enormous quantity of sand washing over.

With regard to the railway (continued His Excellency), the track outside of Buff Bay, for about 200 yards had been completely destroyed, and it would take a month and possibly six weeks before the line could be put in order."

Observations.

In the following tables of observations the mercurial barometers at Morant, Kingston, Kempshot, and Negril, have been reduced to all the standards of temperature, level, gravity, etc. The aneroid barometers at Port Antonio and Woodlawn were reduced by comparing their readings with those at Kingston and Kempshot when the storm was yet distant. And all bar. readings were further corrected for diurnal variation. The velocity of the wind is for the most part estimated in miles per hour.

It may here be mentioned that many other aneroid readings and notes have been sent me; but the aneroids were all more or less out of order, and the notes not sufficiently precise; for these tables of observation are of course intended to supply materials for future study.

We may here give the Beaufort scale (WR. No. 411, p. 12):—

Scale No.	Description.	Miles per hour.	Scale No.	Description.	Miles per hour.
0 ..	Calm	0	8	Fresh gale	42
1 ..	Light air	2	9	Strong "	50
2 ..	Light breeze	5	10	Whole "	59
3 ..	Gentle "	10	11	Storm	68
4 ..	Moderate "	15	12	Hurricane above	75; say 80
5 ..	Fresh "	21	(14	Great hurricane	" 100
6 ..	Strong "	27	(16	Violent "	" 120
7 ..	Moderate gale	35			

Morant Point Lighthouse.—Mr. Chas. Durran

August. 1915.		Bar. (Stand.)	Wind.		Notes.
	hr. m.	in.	miles pr. hr.		
12th	7 a.m.	29.681	N	40	Rain squalls; Fr. stratus and nimb., N. Upper clouds,
	8 a.m.	.670	"	"	Alt. stratus; motion not observed.
	10 a.m.	.656	"	"	
	11 a.m.	.653	"	"	
	Noon	.637	"	"	
	1.30 p.m.	.610	"	"	
	3 p.m.	.576	"	"	
	4.30 p.m.	.541	"	"	
	8 p.m.	.395	NW	80	Violent gusts and heavy rain.
	10.15 a.m.	.183	W	"	Ditto do
	11.30 p.m.	.196	SW	60	Ditto do
13th	1 a.m.	.361	"	40	Gusts and rain not so heavy.
	7 a.m.	.749	SSE	30	Continuous rain.
	3 p.m.	.835	SE	20	Rain ceased.
14th	7 a.m.	.839	"	10	Fine
	3 p.m.	29.845	ESE	"	Fine.

As the Morant Point bar. invariably reads 0.026 higher than the Kingston bar., the Morant Point readings were all diminished by 0.026 to reduce to Kingston.

By plotting the curve of pressure it will be found that the lowest bar. was 29.149 at 10.45 p.m.

Rainfall 7 a.m. 12th to 8 a.m. 13th, 3.30 inches.

PORT ANTONIO—Mr. W. L. Mudon.

Aneroid readings (reduced).

	hr. m.	in.		hr. m.	in.
Aug. 12th	7 a.m.	29.68	Aug. 13th	12.10 a.m.	28.98
	2 p.m.	.62		12.23 "	28.99
	5.20 "	.60		12.35 "	29.02
	7.55 "	.52		12.50 "	.04
	8.20 "	.44		1.10 "	.08
	9.15 "	.36		1.25 "	.11
	10.5 "	.29		1.40 "	.15
	10.50 "	.18		5.55 "	.44
	11.18 "	.08		6.40 "	.46
	11.30 "	29.03		7 "	.48
	11.40 "	28.98		9 "	.64
	11.52 "	28.96		11.25 "	29.73

The wind blew from the NW, W, S, and reached SE at 6 a.m. on the 13th. It did not reach full hurricane force. The rainfall was 3.90 inches.

Theoretically the lowest bar. should have been 28.93 instead of 28.96; but this difference is small and the readings are valuable.

KINGSTON.—Mr. J. F. Brennan.

1915—August.		Bar. (Stand.)	Wind.		Notes.
	hr. m.	in.			
10th	7 a.m.	29.958	N	6	1 Cum. E; 5 cir.-haze S.W.
	3 p.m.	.949	SE	14	2 cum. E; 1 cir. W
11th	7 a.m.	.924	N	5	Clear
	3 p.m.	.861	SE	8	2 cum. E
	7 p.m.	.822	SE	6	Clear
	11 p.m.	.798	NE	3	Clear
12th	3.30 a.m.	.726	NE	5	1 cum. NW slow
	7 a.m.	.686	N	12	3 str. NE; 4 cum. N; 1 cir. SE
	11 a.m.	.665	N	18	2 str. NE; 1 cum. NNE; 6 cir. and cir. str. SE
	3 p.m.	.623	N	12	10 nimb. NE. Rain in afternoon
	7 p.m.	.539	NW	18	Heavy rain squall
	9 p.m.	.438	NW	14	10 nimb. Rain
	10 p.m.	.393	NW	14	10 nimb. Rain
	11 p.m.	.336	NW	22	Light rain
13th	Midnt.	.347	W	30	Showery
	1 a.m.	.362	SW	36	Light showers
	2 a.m.	.389	SW	40	"
	3 a.m.	.451	SW	24	"
	4 a.m.	.501	S	24	"
	5 a.m.	.542	SE	30	Nimb. SE; light showers
	6 a.m.	.562	"	26	"
	7 a.m.	.588	"	38	"
	11 a.m.	.766	"	36	"
	3 p.m.	.835	"	24	
14th	7 a.m.	.834	"	12	
	3 p.m.	29.878	"	16	

By plotting the curve of pressure it will be found that the lowest bar was 29.327 at 11.23 p.m., 12th.
A note should be made here as to the work done by the Weather Service in Kingston, represented by Mr. Brennan, on Aug. 12th:—

	No.
Telegrams sent, Washington, Havana, Santiago	9
" inland	4
" received	9
Circular hurricane warnings issued ..	3
Telephone calls	112
Personal calls	25
Letters, notices, &c.	15
	177

Complaints were afterwards made by several persons who were unable to "call up" Mr. Brennan as his telephone was in constant use.

Woodlawn, Mandeville.—Prof. W. H. Pickering.

1915—August.		Aneroid (reduced).	Wind.		Notes.
	hr. m.	in.			
11th	7.10 p.m.	29.85			
	8.50 p.m.	.85			
	11 p.m.	.82			
12th	6.45 a.m.	.76			
	7.45 a.m.	.75	ENE	10	No rain.
	11 a.m.	.76			
	12.40 p.m.	.75	NNE	5	
	2.20 p.m.	.63	NNE		
	4.30 p.m.	.63			
	5.50 p.m.	.63	Calm		
	7.5 p.m.	.59	NNE	10	Brilliant yellow sunset.
	11.8 p.m.	.48	NNW		Brief gusts: occasional rain.
13th	7.20 a.m.	.49	SSW		2.02 in. rain since 7 a.m., 12th.
	9.45 a.m.	.57	SSW	25	
	10.50 a.m.	.61	ESE	20	Heavy rain.
	11.50 a.m.	.64	SE	35	"
	1.15 p.m.	.65	ESE	35	"
	3.20 p.m.	.71			"
	4.30 p.m.	.78			
	6.30 p.m.	.83	SE	10	
	9.15 p.m.	.81	S	6	
14th	9.18 a.m.	.85	SSE	5	7.60 in rain 7 a.m. 13th, to 7 a.m. 14th.
	12.30 p.m.	29.89	S	3	

The lowest bar. was not observed: theoretically it was 29.40 at 3 a.m., 13th.

Kempshot.—Mr. Maxwell Hall.

August, 1915.		Bar. (Stand.)	Wind.		Clouds.		Notes.
12th	7 a.m.	29.788	N	15	10 str.	N	Min. temp. 72°.2
	9 a.m.	.777	N	15	10 fr. str.	N	Blue sky between clouds.
	10 a.m.	.749	NNE	12	2 str.	NNE	Thin cir. veil over blue sky.
					2 fr. cu.	NE	SE motion along cir. stripes.
					1 cir.	SE	
	11 a.m.	.754	NNE	12	2 str.	NE	Between 7 and 10 a.m., 55 miles of wind passed.
	2 p.m.	.721	Var.	5	4 cum.	NE	The cir-str. was advancing from over the eastern half of the sky.
					6 cir-str.		
	3 p.m.	.712	Var.	5	4 fr. str.	NNE	Max. temp. 81°.8.
					8 cum.	E	
	4 p.m.	.701	NE	3	10 cum.	NE	Fine. Between 10 a.m. and 5 p.m. 71 miles of wind passed.
	5 p.m.	.699	NW	10	10 cir-str.		Some cum. N.E across the sheet of cir-str. Stripes lie SE and NW.
					cir-stripes	E	
	7 p.m.	.673	W	5	2 str.	NE	Clearing sky.
					cir-stripes	NE	
	9 p.m.	.618	W	10	5 cum ?	NE	Between 5 p.m. and midnight 67 miles of wind passed.
	11 p.m.	.570	W to N	15	10 str ?	N	Rain. Wind and clouds more together.

KEMPSHOT.—Mr. Maxwell Hall, *contd.*

August, 1915.	Bar. (Stand.	Notes.
13th 1 a.m.	.523	NW. Rain squalls. Wind, rain and clouds all together.
2 a.m.	.468	NW. Rain squalls. Gusts 40 to 60 miles an hour. Temp. 76°.
3 a m.	.407	NW do do do
4 a.m.	.346	NW do do do
4.30	.308	W do do do
5.0	.302	SW do do do
5.10	.287	SSW do do do
5.20	.286	S do do do
5.30	.286	S do do do
5.40	.291	S do do do
6 a.m.	.312	S do do do
7 a.m.	.384	SW Heavy squalls Gusts 60 to 70 miles an hour.
8 a.m.	.439	SW Rain squalls. Gusts 40 to 60 miles an hour. Between midnight and 10 a.m 342 miles of wind had passed.
9 a.m.	.502	S Rain squalls. Gusts 40 to 60 miles an hour.
10 a.m.	.539	S do do do
11 a.m.	.582	SSE do do do
Noon	.583	SE Heavy squalls. Gusts 60 to 70 miles an hour.
1 p.m.	.615	SE Rain squalls.
3 p.m.	.684	SE Heavy squalls. Between 10 a.m. and 5 p.m., 210 miles of wind had passed.
7 p.m.	29.740	SE Clearing

Rainfall 7 a.m. 12th, to 7 a.m. 13th, 4.73: 7 a.m. 13th, to 7 a.m. 14th, 0.74.

When the rain collected in the gauge was measured in the morning of the 13th it was found to be milky white; so again in the morning of the 14th, but less so. As the geological formation in the neighbourhood, and of the Island generally, is white limestone, the dust in the air is chiefly limestone, and the rain gauge becomes incrusted with lime in the course of years. But there were no local circumstances to account for the amount of lime in the rain during the hurricane; the rain driven by the wind through the closed jalousies even left a white stain on the floors.

The temperature of the air before and during the storm was about 5° above the average, so that the air felt remarkably warm. During the hur icane in Kingston Aug. 18th and 19th, 1880, the temperature of the air was similarly about 6° above the average.

The attempt of the sky to clear at 7 p.m. on the 12th, as usual after the heat of the day, is very remarkable.

The Robinson anemometer nearly failed again. After the storm it was found that the vertical cylinder which carries the upper bearing for the vertical axis to which the revolving arms are attached was nearly unscrewed out of the top of the box containing the recording apparatus; the cylinder screws in one way (the usual screw rotation), but the arms revolve the other; consequently lateral pressure against the bearing had produced such friction as to unscrew the cylinder; and yet I am sure the gusts were not over 70 miles an hour. The instrument is regularly oiled and looked after. I have suggested elsewhere that the two motions of rotation should be the same, so that the arms screw on their support tighter.

GREAT VALLEY, Hanover.—Mr. E. E. Melville.

Aug. 12th. 7.30 p.m. Wind NE, light and gusty.
9.40 p.m. Wind NE, hurricane gusts; wind backing to N.
13th. 2 a.m. Wind NW, gale in irregular gusts.
5 a.m. Wind W do
6.20 a.m. Wind SW do
7.30 a.m. Wind S do
8.40 a.m. Wind SW do

And the wind alternated between S and SW from this time until 9 p.m. when it gradually died away.

From 8.40 a.m. onwards the winds must surely have been affected by local surroundings, by hills or valleys. It was SE at Mount Eagle and Fontabelle in Westmoreland not far from Great Valley, and indeed in the afternoon it was SE at every other place in the Island.

NEGRIL POINT LIGHTHOUSE.—Mr. J. S. Brownhill.

1915—Augu t.		Bar. (Stand.)	Wind		Clouds: Notes.
		in.			
12th	7 a.m.	29.786	N	16	Blue sky.
	11 a.m.	.753	N	20	10 cir-str. Scud from N rapid.
	3 p.m.	.704	N	15	10 cir-str. Scud from N: also between 1 and 7 p.m. from SE
	7 p.m.	.659	N	13	do do do
	9 p.m.	.617	N	12	10 clouds
	11 p.m.	.623	N	8	10 clouds. Rain squalls.
13th	1 a.m.	..	N	20	10 nimb. Rain squalls.
	2 a.m.	.553	N	30	do do
	3 a.m.	.514	NW	30	do do
	4 a.m.	.491	NW	40	do do
	5 a.m.	.437	NW	60	do do
	6 a.m.	.418	NW	60	do do
	7 a.m.	.406	NW	60	do do Wind 7 a.m. 12th to 7 a.m. 13th. 568 miles.
	8 a.m.	.433	NW	60	do do 8.30 Wind W.
	9 a.m.	.466	SW	60	do do
	10 a.m.	.509	SW	60	do do
	11 a m.	.538	S	60	do do
	1 p.m.	.570	S	66	do do
	3 p.m.	.631	S	60	do do
	5 p.m.	.656	SE	60	do do
	7 p.m.	..	SE	60	do do
	9 p.m.	.705	SE	60	do do
	11 p.m.	.711	SE	60	do do
14th	1 a.m.	.752	SE	60	do do
	3 a.m.	.760	SE	34	10 str.
	5 a.m.	.763	SE	32	10 cir-str
	7 a.m.	.774	SE	40	10 cir-str. Wind 7 a.m., 13th to 7 a.m. 14th., 1165 miles
	9 a.m.	.781	SE	30	10 cum SE. Patches of blue sky.
	11 a.m.	29.810	SE	20	do do do

The wind velocities given are the max. at times of observation. Rain 7 a.m 12th to 7 a.m. 13th, 3.17: 7 a.m. 13th to 7 a.m. 14th, 0.26. The scud from SE between 1 and 7 p.m. was below the scud from N: it was probably due to the usual sea-breeze.

RESULTS.

(1) The first thing which attracts our attention in looking through these observations is the north-easterly drift of the lower and middle clouds on the 12th, more particularly at Kempshot, which is 1,800 feet above sea-level and exposed on all sides. The centre was then to the E of Kempshot, and it might have been supposed that the low clouds would have been drawn in from the NW; but from 10 a m. to 9 p.m. stratus, or cumulus, or both, drifted from the NE; and at the latter hour the centre was only 150 miles away.*

But if we refer to the Report of the 1903 hurricane referred to above, and also to the Report of the 1886 hurricane (W.R. No. 69), exactly the same circumstance occurred; the winds at the west end of Jamaica before the gales sprang up were E.NE. or NE. In 1880 and 1912 the winds were confused between 2 or 3 different centres; but there are now three hurricanes for future study; and at present we can only say that in front of a storm advancing from the E, the wind over Jamaica is north-easterly. Several places reported north-easterly winds in the newspapers: Port Maria, Harkers Hall, etc., but generally speaking, sufficient care was not taken, and the hours were not noted.

(2) We have next to consider the upper clouds. A thin cirrus veil was drawn over the sky at Kempshot at 10 a.m. when the centre was about 375 miles away; and the cirro-stratus appeared 4 hours afterwards when the centre was about 300 miles away. But at 10 a.m. certain cirrus-stripes were observed lying SE and NW, and the motion of a point on a stripe was from the SE. Later on at 5 p.m. the motion of a point was E. So that it may be said that the motion of a po nt on a stripe that day at Kempshot was ESE, or directly from the centre.

* At midnight the wind and clouds were again from NE when the centre was hardly 100 miles away.

(3) In some of my former articles I have called attention to the constancy and regularity during its progress of the isobars round a cyclonic centre as shown by a simple equation:—The fall of pressure below mean at any place varies inversely as the square root of the distance of the centre from that place. When the distance is small, it will be found that the distance has to be measured from the nearest edge of the calm area at the centre, and that other consideration prevent trouble on arriving at the edge.

The same constancy and regularity applies to this cyclone; and this principle allows us to obtain a number of "readings of the barometer" scattered over the Island from those taken by the standard barometers at Morant Point, Kingston, Kempshot and Negril Point; by means of which we can draw the isobars.

Draw lines through these four places parallel to the course of the centre of the cyclone; take the position of the centre at midnight as the position and time to which the isobars are referred; and draw a line southward from the centre at right angles to its course. This perpendicular line reached Kempshot for instance at 5.25 a.m. on the 13th, the time of nearest approach to that place; so that at 11 p.m. on the 12th the perpendicular was 6 hours 25 minutes away in time, or 122 miles in space along the parallel line through Kempshot. The bar. at Kempshot at 11 p.m. was 29.57; and reversing the direction, 29.57 was the bar at midnight at a place 122 miles to the west of the perpendicular line. And so on for other hours at Kempshot, and for the other places.

Now charts (2) and (3) were taken from chart (1) with sufficient accuracy for a general description; but this method of test, as well as the mathematical equation referred to above, requires that the course should be slightly altered, so that it makes an angle of 21° instead of 17° with the parallels of latitude, and drawn through the given position of the centre at 11 p.m. And if from the amended position of the centre at midnight we describe circles they will represent the isobars more accurately than could have been expected.

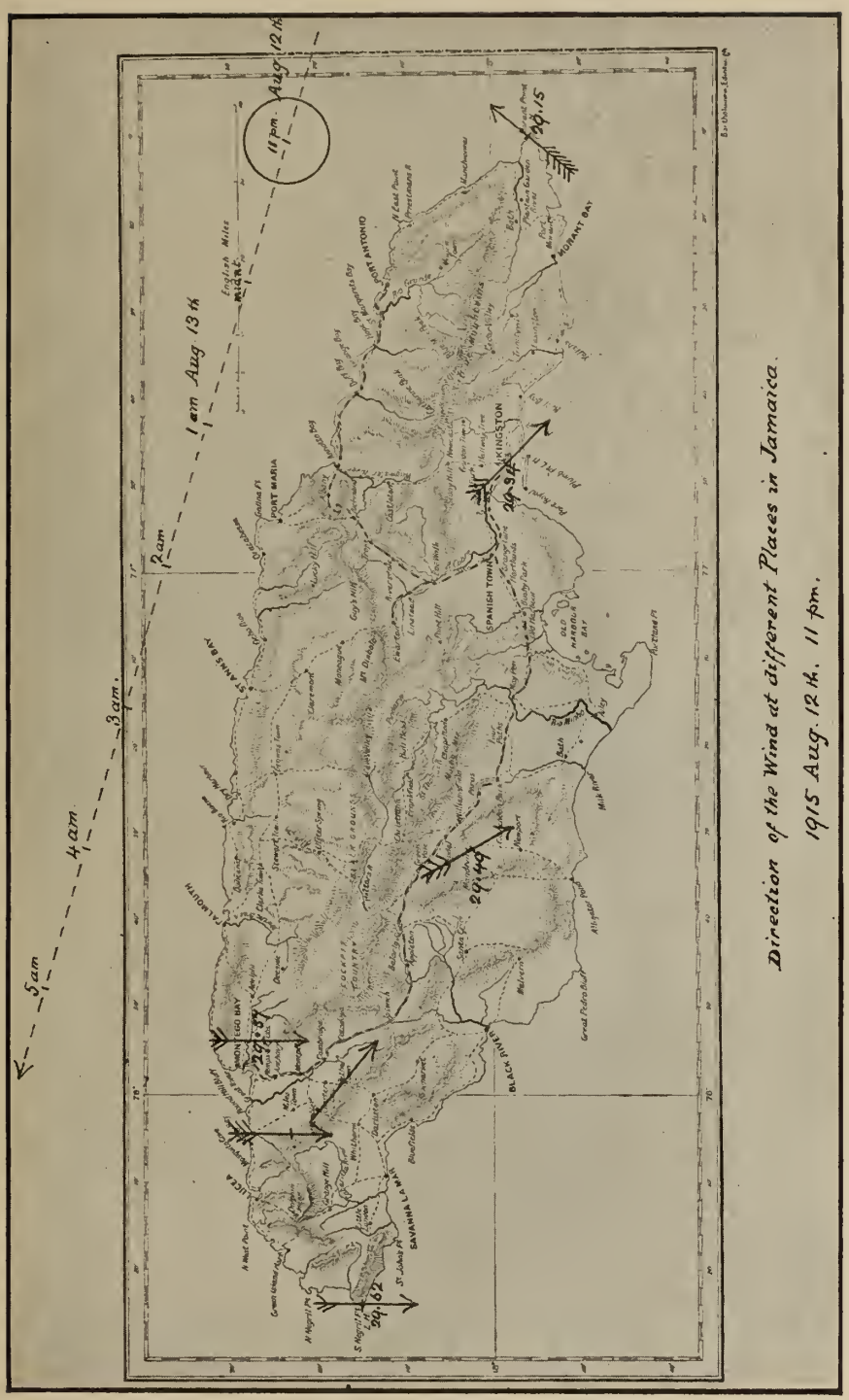
Isobar.	Radius in miles.
29.20	32
29.30	39
29.40	58
29.50	92
29.60	139

That is to say the isobars thus drawn inter-thread all the various bar. readings obtained as described above, with reference however to the advancing left hand quadrant of the cyclone; the gradients will no doubt be somewhat different in the following quadrant.

It is proposed to give the map of the isobars and a few deductions in the next Weather Report.

MAXWELL HALL
Government Meteorologist.

Sept. 13th, 1915.



Direction of the Wind at different Places in Jamaica.
1915 Aug. 12 th. 11 pm.

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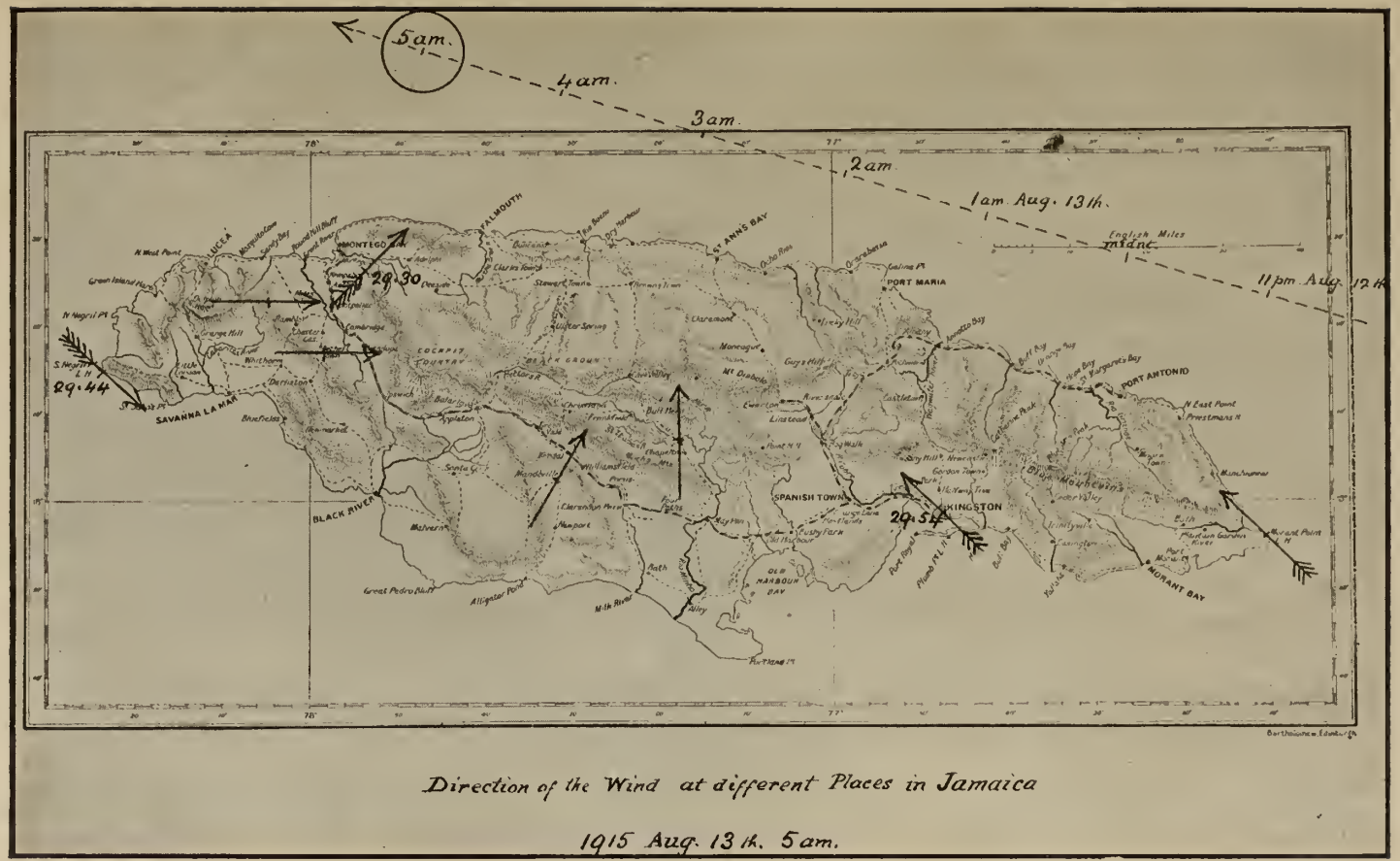

Direction of the Wind at different Places in Jamaica

1915 Aug. 13th. 5am.

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Track of centre of Cyclone, August 1915.
Scale of Statute Miles.
0 100 500 1000
NEW ORLEANS
GALVESTON
16
GULF OF MEXICO
15
CUBA
14
Cayman
Do Brac
13
Grand Cayman
HAITI
JAMAICA
12
PORTO RICO
11
The numbers (or dates) give the position of the centre at noon on each day.

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JAMAICA

WEATHER REPORT

FOR THE MONTH OF

SEPTEMBER, 1915.

The Bar. pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.890	29.850	82.6	84.3	86.6	77.6	9.0	88.0	6*	74.0	1*	14 0
Kingston ..	24	29.861	29.828	77.1	84.6	88.7	74.2	18.5	93.0	23	71.6	2	21 4
Negril Point Light House ..	33	29.841	29.807	78.5	84.6	87.3	74.2	13.1	91.5	24	70.6	6	20.9
Castleton Gardens ..	496	..	..	71.2	81.5	86.9	70.3	16.6	93	20	66	7*	27
Hope Gardens† ..	668	29.883	29.809	76.2	83.4	83.9	70.6	18.3	93	21	68	5	25
Stony Hill Indus. School ..	1,400	..	..	73.4	80.4	83.6	69.4	14.2	89	14	68	3*	21
Hill Gardens ..	4,900	25.246	25.213	64.3	67.0	70.7	58.6	12.1	76	9	57	1*	19

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction from and miles per hour.				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	75.8	80	76.5	73	9.42	264	NE	12	E	13	2.4	1.5	1.6	3.2	1.2	1.8
Kingston ..	24	72.5	86	74.4	71	11.90	173	NE	6	SE	9	1.6	1.6	2.4	3.7	1.9	2.4
Negril Point Light House‡ ..	33	72.9	83	75.3	74	8.67	243	E	11	E	13	2.6	0.3	4.3	5.0	2.9	1.3
Castleton Gardens ..	496	69.2	93	73.5	77	26.23	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	70.5	85	72.8	72	13.44	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	70.3	90	73.1	78	17.87	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	59.8	87	63.9	90	24.43	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m E 8.0

Plumb Point Light House { Average No. of Miles of wind per diem 211
Greatest on the 25th 602
Least on the 22nd 71

THE RAINFALL.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	SEPT., 1915. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	17.87	4.00	25	14	10.88
Spring Valley, Portland ...	16.36	2.60	25	18	.
Bath ...	18.27	3.00	24	21	12.03
Boston ...	18.06	2.60	30	19	11.04
Moore Town ...	37.00	10.00	4	14	14.21
Port Antonio ...	31.16	10.47	4	16	10.43
Fellowship ...	33.38	10.50	4	21	12.93
Windsor, Portland ...	...	...	...	...	...
Johnson River Bridge ...	23.09	3.09	24	22	11.48
Shrewsbury ...	21.82	4.70	24	11	...
Cedar Valley, St. Thos. ...	30.13	8.00	4	14	13.40
Hope Bay ...	17.20	5.20	25	17	..
Moy Hall, St. Thos. ...	33.99	9.10	4	22	10.92
Brooklodge ...	34.31	8.08	4	21	...
Lennox ...	16.90	3.75	24	17	...
Farm Hill ...	36.68	6.60	26	11	10.00
Hill Gardens ...	24.46	...	...	...	..
Buff Bay ...	13.95	3.60	14	16	4.94
Vinery ...	11.06	2.25	14	15	..
Windsor Castle, Port. ...	13.25	5.00	14	12	...
Greenvale, Portland ...	17.03	3.70	24	18	...
Mt. Holstein ...	23.06	9.59	23	22	9.02
Irish Town ...	10.60	2.38	25	8	9.40
Rose Hill ...	26.58	3.40	17	18	...
Hardware Gap ...	19.50	..	...	...	9.02
Stony Hill Ind. School ...	17.87	3.12	26	19	9.82
Castleton Gardens ...	26.23	..	...	...	...
Lawrence Tavern ...	16.90	3.50	23	17	9.53
Cedar Valley, Red Hills ...	12.97	4.27	4	11	...
Carew Castle ...	16.57	3.28	23	17	12.93
Agualta Vale ...	8.89	1.80	2	12	...
Water Valley ...	10.55	1.80	24	13	5.32
Albany, Ry. Station ..	9.19	1.35	25	11	...
Platfield ...	11.67	2.17	24	15	...
Richmond, St. Mary ...	12.11	2.12	24	16	5.59
Hampstead, St. Mary ...	22.44	4.11	19	16	...
Troja ...	..	...	...	...	...
Guy's Hill ...	17.03	2.94	23	14	...
Lucky Hill ...	15.38	2.60	24	14	...
Rio Hoe ...	12.81	2.17	23	16	6.18
Unity Valley ...	16.96	5.12	26	20	8.20
Moneague ...	13.63	3.50	26	15	7.14
Claremont ...	13.92	3.82	26	12	5.31
Albion, St. Ann ...	20.22	4.10	26	17	6.98
Averham Park ...	15.56	4.62	26	15	4.83
Mean ...	20.59	...	..	...	...

NORTHERN DIVISION.	SEPT., 1915. Total fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In	In.			In.
Port Maria ...	9.02	2.30	25	14	3.88
Ocho Rios ...	9.82	1.24	24	15	3.93
Bogue, Ocho Rios ...	10.59	2.01	1	12	...
Rockfield ...	11.56	3.27	25	15	..
Drax Hall ...	12.10	1.80	25	14	3.98
Liberty Hill ...	12.43	2.30	26	13	...
St. Ann's Bay ...	11.98	1.71	15	14	3.31
Seville ...	...	..	..	...	...
Richmond Estate ...	17.22	2.20	26	15	3.85
Llandovery ...	16.90	2.54	26	12	3.72
Runaway Bay ...	7.10	1.70	26	12	...
Brown's Town ...	11.84	2.65	26	15	5.30
Alexandria ...	15.70	4.30	26	11	...
Chewmagna, St. Ann ...	13.96	5.00	26	17	7.41
Home Castle ...	13.05	2.90	26	11	4.56
Richmond Pen ...	13.70	4.25	26	12	5.88
Mahogany Hall ...	13.30	3.21	15	16	6.97
Barnstaple ...	12.23	3.33	26	13	...
Brampton Bryan ...	...	...	...	...	...
Bryan Castle ...	10.50	2.95	26	16	3.44
Braco ...	9.20	2.70	26	10	3.31
Arcadia ...	12.47	2.95	26	12	4.02
Lancaster ...	12.82	3.12	2	13	3.89
Harmony Hall ...	10.02	2.75	2	11	3.64
Vale Royal ...	12.67	3.80	23	11	4.64
Colchis Pen ...	8.24	1.63	15	14	5.23
Swanswick ...	12.80	2.65	26	16	...
Georgia ...	10.70	2.30	23	13	...
Long Pond ...	10.20	3.10	26	13	...
Hyde Hall ...	11.04	3.00	23	14	5.20
Steelfield ...	11.34	2.80	23	11	...
Etingdon ...	...	...	..	..	...
Lottery ...	13.25	2.75	26	13	4.38
Falmouth ...	6.87	2.23	26	14	3.46
Florence Hall ...	10.15	2.08	25	10	...
Good Hope ...	12.23	2.90	26	17	..
Unity ...	13.67	2.75	26	15	..
Kent ...	13.05	3.00	26	13	...
Gales Valley ...	..	..	..	..	..
Canaan ...	11.83	2.20	26	21	7.96
Content ...	8.48	2.08	26	14	...
Bellfield ...	9.67	2.70	26	13	...
Guilsbro ...	14.96	2.02	28	19	7.91
Glasgow ...	10.79	3.00	24	11	...
Moor Park ...	7.80	1.45	26	13	6.13
Rose Hall ...	6.20	1.65	25	7	...
Running Gut ...	5.80	1.70	25	8	...
Cinnamon Hill ...	6.18	1.58	26	9	...
Success ...	6.62	2.10	26	9	...
Montego Bay ...	11.12	2.29	26	15	6.91
Catherine Hall ...	...	..	..	..	...
Retirement ...	16.41	3.52	14	16	...
King Gate ...	20.10	4.02	18	12	7.04
Round Hill ...	..	..	..	..	...
Blue Hole ...	15.69	4.36	14	17	...
Haughton Court ...	8.46	2.00	14	14	...
Lucea ...	9.98	1.65	14	12	7.68
Green Island, Police St. ...	10.17	2.40	4	13	...
CENTRAL SUB-DIVISION.					
Headworks, Rio Cobre ...	12.92	3.96	26	16	6.54
Linstead ...	18.69	4.20	26	13	8.01
Berkshire Hall ...	15.02	3.00	24	13	5.30
Point Hill ...	23.72	5.16	26	17	11.54
Marlie Hill ..	17.92	5.41	26	14	...
Worthy Park ...	12.25	2.32	25	12	7.56
Croft Hill ...	18.22	4.22	26	13	...
Chapelton ...	22.34	9.50	26	17	7.91
Danks Works ...	21.31	8.90	26	17	9.37
Savoy House ...	22.35	10.14	26	18	9.35
Crooked River ...	22.00	8.05	26	10	...
Trout Hall ...	23.15	8.50	26	16	...
Frankfield ...	11.16	1.50	25	16	...
Cave Valley ...	16.20	4.00	20	13	...
Mean ...	13.20	...	...	...	...

West-Central Division.	Sept., 1915. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Whitney ...	24.80	8.55	27	12	11.19
Mocho, Clarendon ...	18.87	8.76	26	8	...
Baillieston ...	17.77	6.00	25	17	9.70
Brokenhurst ...	31.65	8.70	25	18	9.33
Christiana ...	17.89	5.62	26	18	9.97
Chudleigh ...	22.15	7.15	26	16	...
Shooter's Hill ...	23.27	7.65	26	15	...
Spitzbergen ...	20.22	6.50	26	16	...
Kendal, Manchester ...	27.21	7.94	26	13	9.53
Marshalls Pen ...	27.97	8.72	25	16	8.79
Mandeville ...	34.57	11.06	25	21	10.04
Carlton, Mandeville ...	22.86	11.06	25	21	10.04
The Hill ...	...	...	...	...	...
Fairfield, Manchester ...	22.90	7.75	25	25	7.80
Ulster Spring ...	18.97	4.50	26	14	8.44
Freeman's Hall ...	15.10	5.00	26	15	...
Albert Town ...	18.73	5.50	26	14	...
Lowe River ...	23.70	6.15	26	14	10.21
Troy ...	15.82	5.00	26	15	13.77
Windsor Pen, Trel. ...	...	...	...	...	...
Medina ..	18.18	6.15	25	15	...
Wallingford ...	20.89	5.30	26	21	...
Balaclava Police Station ...	18.93	4.68	26	19	10.31
Siloah ...	18.70	3.10	26	21	13.46
Appleton Estate ...	15.39	3.50	26	22	11.50
Maggotty ...	16.42	4.10	25	20	11.84
Butlers ..	13.72	2.85	25	23	...
Dromilly Pen ...	13.27	2.58	26	14	...
Spring Vale ...	15.44	2.52	26	14	10.61
Garland ...	...	...	..	...	...
Mocho, Catadupa ...	...	...	...	...	...
Springfield, St. Elizabeth	15.18	3.13	26	23	...
Chesterfield, St. James ...	...	...	...	...	...
Catadupa Rly. Station ...	17.30	3.60	26	21	...
Kempshot ...	10.00	2.91	14	17	9.64
Cambridge, St. James ...	14.03	2.10	26	20	...
Ducketts ...	...	...	...	...	...
New Market, Police St. ...	13.55	1.85	26	19	...
The Bog, New Market ...	16.73	3.80	25	23	...
Kew Park ...	12.07	2.39	25	17	12.06
Knockalva ..	13.92	2.15	26	20	...
Ramble ...	...	...	...	...	...
Petersville ...	14.03	3.87	25	21	9.83
Darliston ...	17.07	4.21	26	28	13.79
Bluefields ...	17.97	4.62	26	15	12.34
Whithorn ...	11.38	2.44	26	16	12.06
Water Works Pen ...	10.80	2.30	26	13	...
Great Valley, Han. ...	13.83	2.15	25	16	12.27
Prospect Park ...	...	...	...	...	...
Blackheath ...	12.73	3.00	31	13	...
Fontabelle, Westm. ...	...	...	...	...	...
Belleisle ...	...	...	...	...	...
Morgan's Bridge ...	9.79	1.68	26	17	12.18
King's Vale Police St. ...	6.55	1.05	15	15	11.44
Mean ...	18.43	...	...	...	...

Southern Division.	Sept., 1915. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	9.42	2.00	30	20	7.31
Elliott Hill ...	12.86	1.88	26	23	...
Pleasant Hill ...	13.24	2.40	30	18	...
East Prospect ...	10.77	1.86	29	22	...
Morant Bay ...	12.36	2.87	24	18	8.41
Easington ...	21.13	4.75	4	15	8.73
Bull Bay ...	16.50	5.70	4	8	4.70
Gordon Town ...	16.26	4.15	26	8	8.57
Hope Gardens ...	13.44	...	...	...	...
King's House Gardens ...	12.45	...	...	...	...
Melrose ...	12.04	3.77	27	11	..
Halfway Tree ...	12.11	3.80	26	9	5.09
Lunatic Asylum ...	11.25	4.49	4	10	4.72
Upper Elletson Road ...	12.77	5.26	4	13	..
Kingston P. W. Office ...	11.90	6.45	4	9	4.18
Plumb Point L. H. ...	17.08	9.45	4	11	3.81
Clifton Pen ...	13.08	4.70	4	8	...
Quarantine Station ...	10.38	6.00	4	9	..
Spanish Town ...	10.43	2.88	26	14	5.30
Hog Hole, St. Catherine...	12.03	4.30	26	14	6.33
Hartlands ...	11.33	2.55	26	9	4.39
Belmont, Guanaboa Vale	16.50	3.35	26	22	...
Old Harbour ...	10.44	1.90	26	13	6 45
May Pen ...	15.34	7.60	26	12	7.89
Hillside ...	...	...	...	...	...
Moreland ...	...	...	...	...	...
Money Musk ...	15.32	4.82	25	13	5.48
Dunkley's, Vere ...	15.94	4.21	26	13	6.52
Dry River " ...	16.01	3.68	25	14	...
Denbigh ...	18.00	7.00	26	9	7.99
Toll Gate ...	22.77	6.86	26	14	...
Woodleigh ...	19.15	7.50	26	9	...
New Yarmouth ...	18.26	4.58	25	13	5.73
Exeter, Vere ...	...	...	...	...	...
Rhymesbury ...	17.94	4.23	26	18	5.96
Milk River ...	20.10	4.30	26	8	6.33
Clarendon Pk. Ry. St. ...	...	...	...	...	...
Victoria Town ...	...	...	...	...	...
Hog Hole, S. Manch. ...	28.51	9.30	25	16	..
Stone's Hope ...	26.83	8.02	25	14	8.30
Newport, Manchester ...	...	...	...	...	..
Great Valley, Man. ...	20.92	5.55	28	18	6.63
Alligator Pond ...	...	..	...	...	...
Southfield, St. Elizabeth ...	22.59	6.45	25	16	...
Lititz ...	12.61	3.90	28	18	...
Long Hill ...	...	...	...	...	..
Torrington ...	21.35	5.00	25	16	6.42
Bethlehem, St. Eliz. ...	17.60	4.64	26	18	6.78
Santa Cruz ...	...	2.82	26	19	...
Pedro Plains Police St. ...	14.62	5.22	25	13	4.90
Mountainside ...	14.45	3.00	25	15	..
Black River ...	11.70	3.05	26	13	5.75
Font Hill ...	11.25	3.70	25	12	7.11
Mount Edgecombe ...	11.31	2.65	25	16	8.39
Sweet River ...	...	...	...	...	...
Windsor, Sav.-la-mar ...	8.34	2.05	26	11	7.26
Orchard ...	7.65	1.78	26	11	...
Sav.-la-mar ...	8.03	1.75	24	9	6.96
Meylersfield ...	7.35	1.92	1	7	...
Little London ...	8.68	3.00	25	8	...
Retreat ...	10.79	2.60	25	10	8.28
Negril Point L.H. ...	8.67	2.75	25	12	7.51
Mean ...	14.52	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

Divisional and Island Rainfall.	Sept. 1915.	Sept. Average.
	In.	In.
North-Eastern Division ...	20.59	8.68
Northern „ ...	13.20	5.70
West-Central „ ...	18.43	10.78
Southern „ ...	14.52	6.49
The Island ...	16.68	7.91

Heavy rains fell over the eastern part of the Island on the 4th: in Kingston as much as 6.40 fell on that day, and at places in Portland over 10 inches fell.

Again on the 25th and 26th heavy rains fell which were due to a cyclone which passed along the southern shores.

At Moore Town and Farm Hill, from the two causes 37.00 and 36.68 inches fell respectively; but the rains were distributed very irregularly, and at other places only 7 or 8 inches fell. Further notes will be found in the following account of the Storm.

Shocks of Earthquake in Sept., 1915.

Date.	Standard Time (Approx.)	Intensity.	Notes: where felt, etc.
11th	6.37 a.m.	III or IV	Kingston; 0.06, S 56° E; 5 sec.
		II	Mt. Holstein: .012 SE and NW: sound.
		III	Moy Hall: SW and NE: 5 sec.
		II	Linstead: Race Course.
		II	Port Antonio, E and W ? a few sec.
		I	Windsor Pen: Trel. Tremors lasting several secs.
		I	Unity Valley: Two slight successive shocks.
		I	Springfield, St. Elizabeth.
		I	Petersville, Westmoreland.
"	7.20 "	I	Hagley Gap.
"	11.28 "	I	Kingston: 0.002: 10 sec.
"	...	I	Moy Hall.
18	8.0 "	I	Siloah.
27	8.22 p.m.	II	Morant Bay: sharp and hard: 1 sec.

NOTES.

The shock on the 11th at 6.37 a.m. was due to an epicentre south of the parish of St. Thomas which has given off a good many shocks last year and this year; the greatest of these was on August 3rd, 1914, when it was very severely felt at Morant Bay,—No. V on the Earthquake scale. The period of this centre is 17.6 days, but its position is not yet known.

The other shocks on the 11th were of course "after-shocks."

On the 18th the shock came from the epicentre S near Siloah, which was due September 18th, early in the morning.

On the 27th, there was another shock from the new epicentre, not far from Yallahs; this epicentre we shall distinguish in the future by the letter Y.

It is requested that for the future all communications to the Weather Office may be addressed to the Montego Bay P.O.

MAXWELL HALL,
Government Meteorologist.

Montego Bay P.O.

THE STORM OF SEPTEMBER 24TH AND 25TH, 1915.

Early in the afternoon of Sept. 23rd the following telegram was received from the U. S. Weather Bureau and was posted at all the telegraph stations in Jamaica:—

"Some indications of a tropical disturbance in latitude 15°, longitude 67°," a point on the chart 250 miles south of the west end of Porto Rico.

On the 24th the following was received:—" 12.30 p.m. Pressure low over western Caribbean sea. Indications of disturbance south-east of Kingston: its intensity not yet known."

The following were the observations at 7 a.m. on the 24th:—

Station.	Bar.	Wind.	Notes.
Morant Pt. ...	29.770	ENE 20	6 cirrif. clouds E; fine; heavy sea.
Kingston ...	.771	N 3	5 str-nimb. NE; rain; thunderstorm.
Kempshot ...	.771	ENE 10	10 str. ENE: drizzle.
Negril Pt. ...	.762	NE 7	Blue sky.

At Kingston the wind from the N was merely the usual land-breeze; the cyclonic wind was NE as shown by the clouds. At Kempshot and Negril the wind was as usual when a depression is advancing from the east. (See WR. No. 445, p. 11.) And what small indications there were would place a depression at a considerable distance south of Jamaica.

After this the bar. rose: at Kingston the usual SE breeze set in at 11 a.m.: at 1 p.m. the bar. there was 29.811; and the following were the observations at 3 p m. on the 24th:—

Station.	Bar.	Wind.	Notes.
Morant Pt. ...	29.794	ENE 20?	
Kingston ...	.783	W 6	8 Str. NE; rain squalls during day.
Kempshot ...	.814	E 15	10 str. cum. E fast.
Negril Pt. ...	.788	SE 15	10 nimb.

The W wind at Kingston was probably a mere flaw from the mountains; and both Kingston and Morant Pt. began to feel the influence of the depression to the SE, while Kempshot and Negril Pt. showed that the depression to the S had passed. And in accordance with general instructions wired from Kempshot, Havana was warned, and the following circular was posted in Jamaica about 4 p.m.:—

"Disturbance developed to south-east of Jamaica and passed along south of the island in a westerly direction."

This was true; but it so happened that it was not the disturbance south of Porto Rico and SE of Jamaica referred to by the cable notices of the 23rd and 24th; it was a "secondary," or a minor depression attached to the advancing larger depression.

Consequently during the night of the 24th the bar. fell over Jamaica, and squalls of wind and rain increased in force as the larger depression passed along the south of Jamaica on an almost westerly course, with its centre at least 150 miles south of the island.

At Negril Pt. the wind was ENE that night 35 to 40 miles an hour with heavier squalls at times: at 11 p.m. the bar. was 29.739.

At Kingston there was not much wind, and the lower clouds were from the E: at 11 p.m. the bar. was 29.745: ENE. 15.

At Kempshot there were rain squalls from the N, NE. and ENE, from 10 to 15 miles an hour: at 3 a.m. on the 25th the bar. was 29.754 ENE, 15.

At Negril Pt. there were rain squalls from the SE; and at 3 a.m. on the 25th the bar. was 29.736 with wind SSE, 30 miles an hour. And the wind remained SE until some time after 4 a.m. when it was N and NE. The "secondary" which had passed must have surely developed to have kept the wind so long in the SE.

The following were the observations at 7 a.m on the 25th:—

Station.	Bar.	Wind.	Notes.
Morant Pt. ...	29.740	E 30	Wind less squally: showers.
Kingston ...	.698	E 15	10 nimb. E.
Kempshot ...	.680	E 30	Stormy.
Negril Pt. ...	.670	N 12	Rain squalls.

After this the bar. rose; and as the 7 a.m. readings were lowest, or nearly so, at all the stations, we cannot do better than assume that the centre was then south of the island and about 150 miles distant.

During the night there were several heavy gusts; and about 3 a.m. a remarkably heavy one was noticed at Kempshot, Montego Bay, Lucea, and Negril Pt.; and no doubt it was such gusts which blew down trees and broke the telegraph wires at several places, so that at 7 a.m. on the 25th it was found that telegraphic communication between Kingston and Kempshot was interrupted.

In consequence Mr. Brennan issued a notice in Kingston at 9 a.m. for the eastern part of Jamaica, to the effect that the storm had passed but that brisk easterly winds might be expected to continue, and at 9.30 a.m. the following notice was issued from Kempshot for the western part:—"The centre of the cyclone passed 150 miles south of Kempshot at six this morning on a westerly course. The weather will soon clear."

But as a matter of fact it did not clear until the morning of the 27th: the word "moderate" would have been better.

The cyclone was fully developed at this time; the S.S. "Almirante" met the storm on the night in question on her voyage from Colon to Kingston, and was somewhat damaged The cyclone continued to move on the usual course, south-west of the Cayman Islands, over Cape San Antonio, and on to New Orleans; it struck that city at 6 p.m. on the 29th, and caused great loss of life, and great damage to houses and property.

The centre was south of Jamaica at about 7 a.m. on the 25th, as already said; and measuring from its position at 8 a.m. on the 23rd, it must have moved at the rate of 16 miles an hour along its course; but from Jamaica to New Orleans its rate was reduced to 12 miles an hour.

As the banana fields in Jamaica had been greatly damaged by the hurricane of August 12th and 13th, this storm added but slightly to the total damage; of course the wind was stronger on the south side of the island, but on the north-eastern coast the wind blew the sea ashore, and impeded the repairs which were being made to the roads.

A good deal of damage was done by the rivers Minho and Thomas in Clarendon; on the 24th and 25th September the cyclonic rains had filled those rivers full, and on the night of the 26th there was a severe thunderstorm in upper Clarendon which lasted for three hours, when 7 inches of rain fell. This of course brought down the rivers in full flood; and besides the damage to cultivated lands on their banks there was some loss of life.

M. H.

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JAMAICA

WEATHER REPORT

FOR THE MONTH OF

OCTOBER, 1915.

The Bar. pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.894	29.837	82.6	84.0	86.4	77.9	8.5	88.5	3	71.5	20	17.0
Kingston ..	24	29.867	29.814	75.8	83.9	88.7	73.6	15.1	92.5	15	70.8	20	21.7
Negril Point Light House ..	33	29.855	29.802	77.7	84.3	87.6	73.6	14 0	89.9	26	69.6	4	20.3
Castleton Gardens ..	496	..	..	71.2	81.8	88.3	70.2	18.1	92	1*	66	20	26
Hope Gardens† ..	668	29.887	29.798	75.5	83.5	89	70	19	93	3	67	19	26
Stony Hill Indus. School ..	1,400	..	..	73.0	78.8	83.4	68.7	14.7	88	15*	68	1*	20
Hill Gardens ..	4,900	25.248	25.222	65	67.2	71.7	58.9	12.8	76	4	57	28*	19

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction from and miles per hour.				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	74.8	78	75.2	75	16.75	219	NE	11	NE by N	7.3	3.7	0.6	1.6	3.5	0.9	1.9
Kingston ..	24	72.4	89	74.3	84	12.78	126	NNE	5.0	SE	8.4	1.2	0.7	3.6	2.8	1.7	3.4
Negril Point Light House‡ ..	33	73.4	86	76.3	77	5.03	177	ENE	7.4	NNW	10.2	1.8	0.0	5.4	2.9	4.8	0.9
Castleton Gardens ..	496	69.4	93	75.4	79	20.73	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	68.1	76	73.9	72	10 84	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	70.8	92	74.8	87	20.48	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	60.1	84	64.1	90	12.39	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m EN.E. 7.0

Plumb Point Light House { Average No. of Miles of wind per diem 129
Greatest on the 31st 226
Least on the 25th 68

THE RAINFALL.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	OCT., 1915. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	26.48	9.00	30	12	18.94
Spring Valley, Portland ...	17.73	5.57	28	17	.
Bath ...	23.14	8.75	31	20	18.37
Boston ...	16.75	2.25	31	13	13.11
Moore Town ...	26.49	6.00	31	13	21.93
Port Antonio ...	17.90	3.90	31	16	15.16
Fellowship ...	20.54	4.60	31	18	18.37
Windsor, Portland ...	...	...	...	...	...
Johnson River Bridge ...	17.97	6.88	29	17	13.85
Shrewsbury ...	19.72	2.41	18	15	12.70
Cedar Valley, St. Thos. ...	16.65	6.50	31	9	15.05
Hope Bay ...	14.70	2.70	29	16	..
Moy Hall, St. Thos. ...	20 25	7.50	31	11	19.97
Brooklodge ...	17.44	7.10	31	15	...
Lennox ...	14.70	3.00	16	16	...
Farm Hill ...	18.84	6.00	31	8	12.59
Hill Gardens ...	12.39	...	...	...	..
Buff Bay ...	12.24	2.50	31	11	11.76
Vinery ...	11.09	2.05	31	12	..
Windsor Castle, Port. ...	7.24	1.38	31	9	...
Greenvale, Portland ...	13.58	2.75	16	10	...
Mt. Holstein ...	11.12	2.60	31	22	12.72
Irish Town ...	9.55	3.60	31	8	11.46
Rose Hill ...	19.64	4.35	31	17	...
Hardware Gap ...	13.50	..	...	...	16.36
Stony Hill Ind. School ...	20.48	4.50	31	25	14.38
Castleton Gardens ...	20.73	..	...	...	...
Lawrence Tavern ...	12.93	2.81	31	15	12.71
Cedar Valley, Red Hills ...	11.91	5.00	31	13	...
Carew Castle ...	20.70	4.41	23	20	13.03
Agualta Vale ...	6.13	2.45	31	12	...
Water Valley ...	8.94	3.00	31	13	7.93
Albany, Ry. Station ..	10.77	4.63	31	10	...
Platfield ...	6.96	1.49	19	13	...
Richmond, St. Mary ...	8.41	5.19	31	11	9.83
Hampstead, St. Mary ...	14.85	6.22	31	17	...
Troja ...	.	...	...	...	...
Guy's Hill ...	11.28	6.36	31	11	...
Lucky Hill ...	9.06	4.00	31	11	...
Rio Hoe ...	10.64	5.45	31	14	9.64
Unity Valley ...	13.36	6.70	31	14	9.50
Moneague ...	13.93	7.00	31	13	9.94
Claremont ...	8.89	4.40	31	7	8.41
Albion, St. Ann ...	9.13	2.96	31	14	9.02
Averham Park ...	8.27	3.45	31	7	9.35
Mean ...	15.65	...	..	...	...

NORTHERN DIVISION.	OCT., 1915. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In	In.			n
Port Maria ...	10.69	4.57	31	11	8.86
Ocho Rios ...	6.34	4.00	31	6	4.84
Bogue, Ocho Rios ...	5.55	2.95	31	6	...
Rockfield ...	6.88	2.63	31	11	..
Drax Hall ...	4.55	2.00	30	6	7.58
Liberty Hill ...	3.84	2.12	31	8	...
St. Ann's Bay ...	4.30	1.93	31	10	7.22
Seville ...	4.97	2.00	31	8	7.09
Richmond Estate ...	4.25	2.10	31	8	7.56
Llandovery ...	3.58	2.10	31	5	7.48
Runaway Bay ...	3.50	1.55	31	7	...
Brown's Town ...	4.62	1.62	9	7	8.98
Alexandria ...	7.15	1.75	31	10	...
Chewmagna, St. Ann ...	10.30	3.40	31	17	8.36
Home Castle ...	5.35	1.95	31	10	7.14
Richmond Pen ...	7.95	2.85	31	8	7.78
Mahogany Hall ...	6.18	1.92	31	12	8.56
Barnstaple ...	9.85	3.50	23	6	...
Brampton Bryan ...	...	...	...	...	...
Bryan Castle ...	7.95	3.05	29	8	5.81
Braco ...	5.45	2.10	31	8	5.42
Arcadia ...	8.48	2.80	29	11	6.24
Lancaster ...	5.67	2.45	31	6	5.96
Harmony Hall ...	5.33	2.23	31	11	5.42
Vale Royal ...	5.14	2.15	31	7	6.69
Colchis Pen ...	4.46	1.31	31	11	8.53
Swanswick ...	7.12	2.30	31	9	...
Georgia ...	5.70	2.04	31	8	6.23
Long Pond ...	5.73	2.35	31	10	...
Hyde Hall ...	7.69	2.45	..	29	...
Steelfield ...	6.07	2.20	31	..	...
Etingdon ...	5.48	2.09	29	8	...
Lottery ...	8.25	2.20	29	9	6.34
Falmouth ...	5.04	1.84	31	9	5.77
Florence Hall ...	5.46	1.45	29	7	...
Good Hope ...	...	...	..	...	..
Unity ...	8.07	1.81	31	14	..
Kent ...	3.88	2.20	31	6	...
Gales Valley ...	..	..	..	..	..
Canaan ...	7.39	2.02	31	15	8.24
Content ...	4.10	1.32	31	8	...
Bellfield ...	6.61	1.65	21	9	...
Guilsbro ...	11.34	1.70	9	21	7.30
Glasgow ...	5.27	1.39	31	11	...
Moor Park ...	6.26	2.10	29	11	7.87
Rose Hall ...	3.55	1.65	29	4	...
Running Gut ...	4.27	1.60	29	3	..
Cinnamon Hill ...	4.00	2.20	29	6	...
Success ...	2.44	1.10	29	4	...
Montego Bay ...	5.78	1.65	29	8	7.97
Catherine Hall ...	5.38	2.40	29	6	8.64
Retirement ...	7.58	1.52	20	14	...
King Gate ...	6.63	1.20	28	13	9.12
Round Hill ...	..	..	..	..	...
Blue Hole ...	8.41	2.11	31	7	...
Haughton Court ...	7.19	1.42	21	12	...
Lucea ...	6.64	1.32	31	11	8.52
Green Island, Police St. ...	7.56	2.00	26	14	...
CENTRAL SUB-DIVISION.					
Headworks, Rio Cobre ...	8.78	3.90	31	12	9.79
Linstead ...	19.94	10.88	31	20	10.32
Berkshire Hall ...	11.86	6.35	31	17	6.49
Point Hill ...	19.14	11.25	31	9	16.83
Marlie Hill ..	17.68	10.70	31	10	...
Worthy Park ...	...	..	..	..	...
Croft Hill ...	14.30	8.70	31	8	...
Chapelton ...	16.47	10.85	31	10	11.81
Danks Works ...	16.36	11.65	31	13	12.41
Savoy House ...	16.30	11.64	31	14	9.96
Crooked River ...	12.15	7.50	31	10	...
Trout Hall ...	13.27	8.00	31	8	...
Frankfield ...	...	..	...	...	...
Cave Valley ...	...	...	...	...	...
Mean ...	8.11	...	...	..	...

West-Central Division.	Oct., 1915. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Whitney ...	..	...	..	...	...
Mocho, Clarendon ...	12.55	9.35	31	4	...
Baillieston ...	10.33	3.00	31	12	10.70
Brokenhurst ...	5.90	3.45	31	9	14.94
Christiana ...	6.11	3.56	31	19	12.84
Chudleigh ...	7.07	2.80	31	11	...
Shooter's Hill ...	9.83	3.90	31	16	...
Spitzbergen ...	7.03	3.05	31	13	...
Kendal, Manchester ...	9.87	5.05	31	11	14.96
Marshalls Pen ...	5.96	1.62	31	11	12.81
Mandeville ...	8.03	2.82	31	12	16.56
Carlton, Mandeville ...	4.99	2.40	31	11	16.56
The Hill ...	5.00	3.18	31	6	...
Fairfield, Manchester ...	4.66	1.76	31	16	10.60
Ulster Spring ...	16.30	2.20	23	13	10.19
Freeman's Hall ...	7.90	2.45	10	9	...
Albert Town ...	5.91	1.35	31	9	...
Lowe River ...	6.52	3.50	31	11	12.46
Troy ...	8.10	1.20	31	10	16.50
Windsor Pen, Trel. ...	13.26	4.05	28	15	9.49
Medina ..	8.40	2.33	29	13	...
Wallingford ...	5.33	1.50	31	20	...
Balaclava Police Station ...	5.35	1.35	31	11	13.38
Siloah ...	10.10	1.85	31	15	15.10
Appleton Estate ...	8.60	1.82	31	17	14.04
Maggotty ...	10.92	2.50	9	15	15.30
Butlers ..	12.90	2.23	9	18	...
Dromilly Pen ...	10.33	2.33	10	16	...
Spring Vale ...	13.35	2.60	31	13	10.42
Garland ...	...	...	..	...	...
Mocho, Catadupa ...	15.05	2.96	8	17	...
Springfield, St. Elizabeth	11.24	1.80	31	18	9.48
Chesterfield, St. James ...	...	...	...	...	...
Catadupa Rly. Station ...	12.07	1.53	8	17	...
Kempshot ...	7.40	1.18	26	15	9.60
Cambridge, St. James ...	11.87	1.80	12	23	...
Ducketts ...	...	...	...	...	...
New Market, Police St. ...	10.84	1.70	31	15	...
The Bog, New Market ...	12.83	1.65	31	19	...
Kew Park ...	7.71	1.53	26	13	11.68
Knockalva ..	15.53	2.10	31	22	...
Ramble ...	...	...	...	...	...
Petersville ...	7.59	2.38	31	15	11.33
Darliston ...	17.06	2.30	15	25	15.71
Bluefields ...	8.30	1.16	31	17	12.34
Whithorn ...	12.43	2.50	31	22	11.93
Water Works Pen ...	11.85	3.40	23	22	...
Great Valley, Han. ...	9.40	3.10	23	9	12.17
Prospect Park ...	...	...	...	...	...
Blackheath ...	5.16	1.72	28	7	...
Fontabelle, Westm. ...	7.79	2.04	31	8	10.44
Belleisle ...	...	...	...	...	...
Morgan's Bridge ...	9.76	1.95	31	7	12.94
King's Vale Police St. ...	7.89	1.17	28	16	10.25
Mean ...	9.13	...	...	...	...

Southern Division.	Oct., 1915. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	16.75	4.62	31	19	11.71
Elliott Hill ...	17.35	4.49	30	23	...
Pleasant Hill ...	21.21	6.80	31	21	...
East Prospect ...	23.45	7.89	31	17	...
Morant Bay ...	19.75	7.45	31	13	14.22
Easington ...	17.66	6.50	31	14	14.22
Bull Bay ...	10.15	6.10	31	4	10.26
Gordon Town ...	8.92	3.50	29	7	14.15
Hope Gardens ...	10.84	...	...	...	...
King's House Gardens ...	12.50	...	...	...	...
Melrose ...	8.01	2.40	30	13	..
Halfway Tree ...	12.63	4.30	31	7	9.90
Lunatic Asylum ...	10.47	3.30	31	14	7.93
Upper Elletson Road ...	11.18	4.06	31	15	..
Kingston P. W. Office ...	12.78	4.94	31	11	8.15
Plumb Point L. H. ...	15.15	6.30	29	10	7.67
Clifton Pen ...	11.88	6.20	31	7	...
Quarantine Station ...	10.86	4.30	31	6	..
Spanish Town ...	10.73	5.55	31	10	9.59
Hog Hole, St. Catherine...	10.43	5.87	31	10	10.09
Hartlands ...	9.60	6.30	31	7	7.78
Belmont, Guanaboa Vale	16.10	9.60	31	14	...
Old Harbour ...	8.95	2.70	31	7	11.07
May Pen ...	11.23	7.88	31	7	11.57
Hillside ...	...	...	...	...	...
Moreland ...	...	...	...	...	...
Money Musk ...	...	...	...	...	...
Dunkley's, Vere ...	10.31	7.45	31	9	7.01
Dry River " ...	9.67	7.80	31	6	...
Denbigh ...	10.50	8.00	31	4	10.11
Toll Gate ...	14.81	10.25	31	9	...
Woodleigh ...	10.00	7.50	31	4	...
New Yarmouth ...	8.95	6.94	31	8	9.20
Exeter, Vere ...	6.76	3.28	31	8	6.26
Rhymesbury ...	9.67	7.49	31	10	8.49
Milk River ...	21.00	10.60	31	8	7.56
Clarendon Pk. Ry. St. ...	...	...	...	...	...
Victoria Town ...	19.03	15.61	31	7	11.55
Hog Hole, S. Manch. ...	14.19	9.40	31	11	..
Stone's Hope ...	10.00	6.26	31	10	13.35
Newport, Manchester ...	9.24	5.05	31	15	12.26
Great Valley, Man. ...	8.45	4.88	31	13	11.37
Alligator Pond ...	8.09	5.00	31	7	8.77
Southfield, St. Elizabeth ...	5.30	2.72	31	10	...
Lititz ...	4.58	2.54	31	12	...
Long Hill ...	...	...	...	...	..
Torrington ...	4.46	1.40	31	9	11.26
Bethlehem, St. Eliz. ...	6.55	1.56	31	12	11.86
Santa Cruz ...	6.15	1.79	21	11	12.01
Pedro Plains Police St. ...	2.26	1.17	31	4	6.06
Mountainside ...	6.61	1.50	10	9	..
Black River ...	7.48	2.26	21	16	8.74
Font Hill ...	7.35	2.80	31	13	9.95
Mount Edgecombe ...	6.43	2.22	31	16	10.05
Sweet River ...	12.15	2.60	21	14	10.06
Windsor, Sav.-la-mar ...	5.40	1.95	31	11	8.40
Orchard ...	6.11	1.83	31	14	...
Sav.-la-mar ...	6.50	2.50	31	11	8.99
Meylersfield ...	4.46	1.77	31	6	...
Little London ...	5.23	1.95	31	7	...
Retreat ...	4.21	2.00	31	4	10.96
Negril Point L.H ...	5.03	1.72	31	12	8.37
Mean ...	10.03	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

Divisional and Island Rainfall.	Oct. 1915.	Oct. Average.
	In.	In.
North-Eastern Division ...	15.65	13.22
Northern „ ...	8.11	7.46
West-Central „ ...	9.13	12.02
Southern „ ...	10.03	10.20
The Island ...	10.73	10.74

Very heavy rains fell on the 31st, bringing the rainfall up to the average. These rains were due to a depression which developed to the W. of Jamaica, but the heaviest falls were between the middle and the southern shores of the Island. At Victoria Town over 15 inches fell on that day and in Upper Clarendon many places had 11 inches or more.

Shocks of Earthquake in Oct., 1915.

Date.	Standard Time (Approx.)	Intensity.	Notes: where felt, etc.
	hr. min.		
18	5.48 a.m.	I	Melrose, Halfway Tree, N.W. & S.E. duration 3 secs. Mt. Holstein; NW. & S.E 0.015.
25	noon	I	Mt. Holstein.

NOTES.

The shock on the 18th was probably from B2 due Oct., 17.7.

Note on the Hurricane of Aug. 12th. 1915.

Prof. Scherer of Port-au-Prince has kindly given valuable information as to this hurricane in the south of Haiti. The lowest bar. at Port-au-Prince was 29.535 (cor. for Diurn. var.) at 9.30 a.m. on the 12th with the wind E. About 50 miles south of this Town a French steamer met the storm at sea, and passed through a calm area in the midst of a terrible hurricane where the bar. fell to 28.74. At the town of Aux Cayes there was another French steamer, and a series of rather rough bar. readings were taken on board apparently in Greenwich time: the lowest bar. 29.29, and the direction of the NE wind, seem to place the centre south of that Town at about 1 p.m. local time. And at Cape Tiburon the wind was N at 3.30 p.m and SSE or S at 4 p m: so that the centre passed very near the Cape at 3.45 p.m. At the Cape the storm blew down nearly all the houses: and at Aux Cayes the damage was also great, greater than that done by any hurricane since 1875.

The fall of the bar. at the centre is in accordance with the isobars as given in the Report on this hurricane, p. 9, and the Monthly Weather Review referred to; and about the same fall was experienced when the hurricane passed over Galveston on the 16th. And these notes also show that the centre was moving north-west on the morning of the 12th, and that after 1 p.m. it moved nearly west; that is to say, from a little south of Cape Tiburon to a little north of Port Antonio, all in accordance with the deductions made from the readings of the bar. at the Morant Point Light House.

M. H.
19.11.'15.

It is requested that for the future all communications to the Weather Office may be addressed to the Montego Bay P.O.

MAXWELL HALL,
Government Meteorologist.

Montego Bay P.O.

-5-1.05-
JA

No. 449.

FEB 3 1916

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

NOVEMBER, 1915.

The Bar. pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.949	29.895	80.3	81.7	83.7	76.7	7.0	86.0	3*	70.0	1	16.0
Kingston ..	24	29.916	29.873	72.8	82.1	85.5	71.3	14.2	88.7	23	68.5	9	20.2
Negril Point Light House ..	33	29.909	29.858	75.3	83.3	86.1	72.7	13.4	89.3	23	68.0	21	21.3
Castleton Gardens ..	496	..	..	70.1	79.5	83.7	69.5	14.2	90	17*	66	17*	24
Hope Gardens† ..	668	29.940	29.858	72.2	82.5	86.5	67.9	18.6	92	20*	66	7*	26
Stony Hill Indus. School ..	1,400	..	..	70.2	78.2	81.8	67.7	14.1	88	18*	64	26*	24
Hill Gardens ..	4,900	25.267	25.229	61.7	64.1	67.9	56.2	11.7	73	17*	53	26*	20

Stations.	Elevation.	Dew Point and Humidity. 7 a.m.		Dew Point and Humidity. 3 p.m.		Rainfall.	Wind per diem.	Wind: direction from and miles per hour. 7 a.m.		Wind: direction from and miles per hour. 3 p.m.		Amount of Cloud. Lower, Middle and Upper. 7 a.m.			Amount of Cloud. Lower, Middle and Upper. 3 p.m.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	72.6	77	73.0	75	10.12	361	NE	18	NE	15	4.8	0.8	1.0	3.3	1.8	1.4
Kingston ..	24	69.7	80	72.6	73	2.37	93	N by E	3.8	SE	5.0	2.4	0.8	2.2	4.6	1.4	1.6
Negril Point Light House‡ ..	33	70.5	83	72.6	70	2.05	233	E by N	9.3	ENE	14.6	3.3	1.0	2.7	3.6	3.0	1.3
Castleton Gardens ..	496	68.4	94	72.4	77	41.83	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	68.2	87	71.8	69	5 96	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	67.4	90	74.4	83	8.77	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	58.2	87	61.1	90	27.72	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m. EN.E. 9.7

Plumb Point Light House { Average No. of Miles of wind per diem 129
Greatest on the 31st 226
Least on the 25th 68

THE RAINFALL.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	NOV., 1915. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	17.71	3.84	2	12	14 23
Spring Valley, Portland ...	20.45	3.14	5	23	.
Bath ...	20.13	4.40	26	25	12.95
Boston ...	13.73	2.61	9	18	13.51
Moore Town ...	66.53	8.30	25	19	34.15
Port Antonio ...	20.56	3.63	10	21	16.39
Fellowship ...	38.99	8.70	10	25	27.14
Windsor, Portland ...	...	...	...	...	...
Johnson River Bridge ...	13.37	3.63	26	23	6.70
Shrewsbury ...	56.17	10.36	26	20	29.32
Cedar Valley, St. Thos. ...	17.91	3.00	2	14	13.08
Hope Bay* ...	35.00	8.00	26	27	..
Moy Hall, St Thos. ...	21 53	3.25	26	15	13.14
Brooklodge ...	19.11	2.44	25	22	...
Lennox ...	40.25	7.75	13	28	..
Farm Hill ...	37.75	7.20	10	15	34.16
Hill Gardens ...	27.72	...	...	...	..
Buff Bay ...	28.23	8.00	13	18	16.12
Vinery ...	31.59	7.00	13	18	..
Windsor Castle, Port. ...	22.06	7.27	13	19	...
Greenvale, Portland ...	62.40	8.00	26	21	...
Mt. Holstein ...	54.03	13.43	25	24	26.11
Irish Town ..	9.31	3.00	7	9	12.01
Rose Hill ...	21.18	5.00	10	13	...
Hardware Gap ...	18.50	..	...	...	13.02
Stony Hill Ind. School ...	8.77	3.00	25	17	7.14
Castleton Gardens ...	41.83	..	...	...	...
Lawrence Tavern ...	17.50	8.00	25	7	8.33
Cedar Valley, Red Hills ...	3.33	0.58	25	10	...
Carew Castle ...	10.44	4.12	25	14	9.36
Agualta Vale ...	20.90	5.07	13	17	...
Water Valley ...	20.63	4.89	6	16	10.01
Albany, Ry. Station ..	21.16	5.34	13	14	...
Platfield ...	30.46	8.00	26	21	...
Richmond, St. Mary ..	24.82	5.88	26	19	11.65
Hampstead, St. Mary ...	53.56	6.22	12	23	...
Troja ...	..	...	...	...	...
Guy's Hill ...	13.92	2.85	26	16	...
Lucky Hill ...	30.58	5.00	13	18	...
Rio Hoe ...	14.79	2.40	26	15	9.40
Unity Valley ...	12.61	3.80	6	20	9.01
Moneague ...	12.72	4.00	6	18	9.90
Claremont ...	13.95	2.80	27	12	10.46
Albion, St. Ann ...	13.11	2.90	6	15	9.74
Averham Park ...	16.88	4.03	6	14	11.85
Mean ..	23.10	...	.	...	...

*Gauge overflowed 4 times in the month.

NORTHERN DIVISION.	NOV., 1915. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In	In.			In.
Port Maria ...	21.29	6.15	13	17	10.69
Ocho Rios ...	24.17	5.18	26	18	7.73
Bogue, Ocho Rios ...	23.14	6.05	26	14	...
Rockfield ...	21.94	6.50	27	16	..
Drax Hall ...	16.65	4.15	26	19	10.04
Liberty Hill ...	20.00	5.87	26	16	...
St. Ann's Bay ...	16.73	4.63	26	20	9.00
Seville ...	20.29	6.46	26	15	9.80
Richmond Estate ...	19.50	5.58	26	18	9.42
Llandovery ...	18.32	6.05	26	14	9.16
Runaway Bay ...	8.95	2.50	13	11	...
Brown's Town ...	13.33	2.50	25	15	10.58
Alexandria ...	...	...	..	..	...
Chewmagna, St. Ann ...	6.64	2.00	6	17	6.91
Home Castle ...	14.70	3.55	29	16	7.35
Richmond Pen ...	7.40	1.80	29	11	5.99
Mahogany Hall ...	10.03	4.35	29	15	7.14
Barnstaple ...	9.63	3.00	26	10	...
Brampton Bryan ...	...	...	...	...	...
Bryan Castle ...	7.25	1.40	29	17	6.40
Braco ...	4.70	0.80	10	10	5.88
Arcadia ...	11.19	2.25	26	12	6.47
Lancaster ...	5.45	1.10	8	8	6.34
Harmony Hall ...	5.22	1.20	10	16	5.75
Vale Royal ...	8.80	2.40	26	10	7.30
Colchis Pen† ...	3.98	1.40	29	11	5.81
Swanswick ...	11.40	4.16	25	17	...
Georgia ...	7.65	2.35	26	12	5.52
Long Pond ...	9.60	3.40	25	16	...
Hyde Hall ...	7.91	2.75	25	15	...
Steelfield ...	9.34	2.97	26	12	...
Etingdon ...	7.66	1.87	26	17	...
Lottery ...	8.85	1.55	25	15	5.38
Falmouth ...	5.24	1.00	6	18	4.92
Florence Hall ...	6.10	1.65	2	12	...
Good Hope ...	7.73	1.85	25	16	..
Unity ...	6.29	2.22	25	11	..
Kent ...	6.53	1.95	16	15	...
Gales Valley ...	..	..	..	..	..
Canaan ...	7.14	1.40	26	16	5.03
Content ...	5.75	1.00	26	18	...
Bellfield ...	4.60	0.85	25	15	...
Guilsbro ...	8.34	1.98	25	24	5.78
Glasgow ...	8.03	1.62	26	17	...
Moor Park ...	8.30	3.00	26	11	7.90
Rose Hall ...	6.45	2.95	12	15	...
Running Gut ...	6.85	3.15	12	15	...
Cinnamon Hill ...	7.04	2.10	12	15	...
Success ...	5.87	2.08	12	16	...
Montego Bay ...	5.04	1.50	2	16	4.30
Catherine Hall ...	...	...	...	..	...
Retirement ...	9.27	2.09	4	19	...
King Gate ...	3.86	0.82	26	11	3.86
Round Hill ...	..	..	..	..	...
Blue Hole ...	4.31	0.98	3	10	...
Haughton Court ...	7.00	1.52	18	9	...
Lucea ...	7.91	2.50	4	11	5.71
Green Island, Police St. ...	4.61	3.10	4	11	...
CENTRAL SUB-DIVISION.					
Headworks, Rio Cobre ...	1.84	0.55	2	6	4.74
Linstead ...	8.34	2.80	25	12	5.92
Berkshire Hall ...	9.25	1.60	6	18	8.04
Point Hill ...	6.78	1.15	21	15	10.16
Marlie Hill ..	4.91	1.60	26	11	...
Worthy Park ..	7.00	1.55	1	11	4.18
Croft Hill ...	5.62	1.54	2	12	...
Chapelton ...	5.78	1.54	2	14	4.49
Danks Works ...	5.98	1.32	4	17	4.99
Savoy House ...	6.27	1.50	2	17	5.62
Crooked River ...	5.30	1.80	2	12	...
Trout Hall ...	6.57	2.48	2	12	...
Frankfield ...	8.60	2.96	2	11	...
Cave Valley ...	...	...	...	...	...
Mean ...	9.70	...	...	..	..

†Gauge overflowed.

WEST-CENTRAL DIVISION.	Nov., 1915. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Whitney ...	15.10	9.25	31	9	7.91
Mocho, Clarendon ...	2.60	1.00	2	5	...
Baillieston ...	8.08	2.39	2	20	5.25
Brokenhurst ...	11.60	4.10	1	15	6.21
Christiana ...	6.29	2.10	2	20	6.82
Chudleigh ...	6.93	1.00	2	16	...
Shooter's Hill ...	8.24	1.64	5	18	...
Spitzbergen ...	7.89	1.50	2	16	...
Kendal, Manchester ...	6.24	2.10	15	9	5.99
Marshalls Pen ...	10.61	1.85	27	14	6.10
Mandeville ...	10.34	2.02	27	17	6.29
Carlton, Mandeville ...	6.36	1.85	26	14	6.29
The Hill ...	7.65	1.78	27	13	...
Fairfield, Manchester ...	6.12	0.95	28	18	6.46
Ulster Spring ...	6.74	1.75	4	12	6.49
Freeman's Hall ...	3.65	0.70	6	10	...
Albert Town ...	2.33	0.54	6	10	...
Lowe River ...	3.68	1.15	2	14	9.12
Troy ...	4.93	1.20	6	6	6.46
Windsor Pen, Trel. ...	5.22	1.80	4	17	6.03
Medina ..	7.33	3.55	27	13	...
Wallingford ...	7.90	3.16	4	13	...
Balaclava Police Station ...	8.31	4.47	4	11	5.91
Siloah ...	9.30	1.90	1	13	8.94
Appleton Estate ...	...	...	..	..	...
Maggotty ...	6.28	1.40	21	13	6.80
Butlers ..	7.48	1.60	26	12	...
Dromilly Pen ...	5.95	2.33	18	11	...
Spring Vale ...	4.54	1.44	4	8	6.08
Garland ...	...	...	..	...	...
Mocho, Catadupa ...	..	..	...	...	...
Springfield, St. Elizabeth	15.12	3.00	28	14	...
Chesterfield, St. James ...	...	...	...	...	...
Catadupa Rly. Station ...	5.78	1.58	2	12	...
Kempshot ...	4.96	1.20	4	16	6.18
Cambridge, St. James ...	4.64	1.32	4	10	...
Ducketts ...	...	...	...	...	...
New Market, Police St. ...	8.19	1.35	5	10	...
The Bog, New Market ...	6.96	1.11	28	13	...
Kew Park ...	4.37	1.54	2	11	5.52
Knockalva ..	3.40	1.13	2	10	...
Ramble ...	...	...	...	...	...
Petersville ...	4.20	1.72	6	13	6.49
Darliston ...	8.81	2.04	27	14	7.48
Bluefields ...	3.88	0.89	6	9	8.63
Whithorn ...	6.40	2.75	2	15	6.92
Water Works Pen ...	6.43	2.00	4	11	...
Great Valley, Han. ...	8.23	1.88	4	9	5.81
Prospect Park ...	...	...	...	...	...
Blackheath ...	4.54	1.72	31	7	...
Fontabelle, Westm. ...	5.62	1.78	28	8	3.02
Belleisle ...	...	...	...	...	...
Morgan's Bridge ...	4.58	1.57	27	8	5.30
King's Vale Police St. ...	4.26	2.25	4	11	5.46
Mean ...	6.48	...	...	...	...

SOUTHERN DIVISION.	Nov., 1915. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H. ...	10.12	1.62	4	20	6.90
Elliott Hill ...	23.05	6.49	1	25	...
Pleasant Hill ...	16.06	3.14	3	20	...
East Prospect ...	11.42	2.15	3	17	...
Morant Bay ...	10.34	2.25	13	17	6.44
Easington ...	7.34	1.25	14	14	5.35
Bull Bay ...	...	...	...	...	...
Gordon Town ...	9.03	2.50	6	13	9.57
Hope Gardens ...	5.96	...	...	...	...
King's House Gardens ...	4.08	...	...	...	...
Melrose ...	5.69	1.70	7	10	..
Halfway Tree ...	4.55	1.65	7	8	...
Lunatic Asylum ...	2.09	0.64	7	11	3.57
Upper Elletson Road ...	2.96	0.51	13	14	..
Kingston P. W. Office ...	2.37	0.80	7	11	3.00
Plumb Point L. H. ...	3.59	1.10	13	9	2.32
Clifton Pen ...	...	...	...	...	—
Quarantine Station ...	3.31	0.81	10	8	..
Spanish Town ...	2.46	0.41	10	10	3.56
Hog Hole, St. Catherine...	2.92	0.66	5	13	4.34
Hartlands ...	4.50	1.40	15	10	6.06
Belmont, Guanaboa Vale	3.45	0.66	4	14	...
Old Harbour ...	3.97	0.70	8	10	3.60
May Pen ...	3.61	0.80	1	11	4.51
Hillside ...	...	...	...	...	...
Moreland ...	...	...	...	...	...
Money Musk ...	...	...	...	...	...
Dunkley's, Vere ...	4.43	1.50	14	11	3.92
Dry River " ...	4.08	2.01	14	12	...
Denbigh ...	4.20	1.45	13	6	4.79
Toll Gate ...	4.83	0.89	14	11	...
Woodleigh ...	4.55	1.50	13	6	...
New Yarmouth ...	4.19	2.08	14	6	2.66
Exeter, Vere ...	...	...	...	...	...
Rhymesbury ...	5.74	1.79	14	12	3.58
Milk River ...	...	...	...	...	...
Clarendon Pk. Ry. St. ...	...	...	...	...	...
Victoria Town ...	6.76	1.79	2	8	4.53
Hog Hole, S. Manch. ...	6.29	1.18	14	9	..
Stone's Hope ...	7.95	1.80	3	11	5.01
Newport, Manchester ...	7.40	1.15	3	19	6.29
Great Valley, Man. ...	6.68	1.65	27	13	4.24
Alligator Pond ...	3.25	1.36	27	5	2.97
Southfield, St. Elizabeth ...	4.49	1.25	27	7	...
Lititz ...	3.46	0.76	27	16	—
Long Hill ...	...	...	...	...	..
Torrington ...	5.50	1.12	27	9	6.99
Bethlehem, St. Eliz. ...	10.46	2.12	24	14	7.32
Santa Cruz ...	5.07	1.05	5	17	5.89
Pedro Plains Police St. ...	2.72	0.65	3	8	4.01
Mountainside ...	10.64	4.80	27	12	..
Black River ...	2.79	0.64	24	14	4.53
Font Hill ...	2.55	1.45	6	6	5.32
Mount Edgecombe ...	2.43	0.83	10	13	5.00
Sweet River ...	..	...	..	...	..
Windsor, Sav.-la-mar ...	1.57	0.67	15	10	3.64
Orchard ...	3.08	0.68	26	9	...
Sav.-la-mar ...	1.24	0.46	15	6	3.10
Meylersfield ...	2.62	1.63	26	4	...
Little London ...	1.31	0.39	7	6	...
Retreat ...	1.76	0.93	27	4	4.79
Negril Point L.H. ...	2.05	0.99	15	7	3.21
Mean ...	4.69	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

Divisional and Island Rainfall.	Nov. 1915.	Nov. Average.
	In.	In.
North-Eastern Division ...	23.10	13.54
Northern „ ...	9.70	5.91
West-Central „ ...	6.48	5.74
Southern „ ...	4.69	4.56
The Island ...	11.01	7.44

Very heavy rains fell in parts of the north-eastern division between the 25th and 27th which brought the rivers down in flood; 66½ inches fell at Moore Town, 62½ at Greenvale, and 54 at Mount Holstein, near the sources of the Rio Grande, Spanish and Buff Bay rivers, respectively. On the other hand, only one or two inches fell between Sav.-la-Mar and Negril Point Light House.

Shocks of Earthquake in Nov., 1915.

Date.	Standard Time (Approx.)	Intensity.	Notes: where felt, etc.
	hr. min.		
24	5.15 p.m.	I	Buff Bay. Very slight rumbling sound.

Corrigendum.

W. R. No. 448, Oct. 1915, p. 3, S. div. Melrose; for 8.01 read 12.48; for 2.40 read 4.47; for 30 read 31.

Maxwell Hall,
Government Meteorologist.

Montego Bay P.O.

STORMS AND HURRICANES IN JAMAICA.

The following list of Storms and Hurricanes which have done more or less damage in Jamaica, between the years 1655 and 1915, has been carefully prepared; they were all previously given in the Introduction to Vol. II. of the "Jamaica Weather Reports," together with other physical events, excepting the few which have occurred since the commencement of the Weather Service in 1880.

In the year 1900 the United States Weather Bureau published an important work on "West Indian Hurricanes" by Prof. E. B. Garriott, and in that work is given Poey's "Chronological Table of 365 West Indian and North Altantic Hurricanes from 1493 to 1855;" and among the latter there are as many as 23 which are referred to Jamaica, of which no mention is made in the early histories, magazines, journals, &c., of Jamaica, so far as research has at present ascertained.

Of these 23 hurricanes there are indications that some of them were felt by ships at sea, and that some of them were inserted by accident;* and it is proposed to omit all these "hurricanes."

Mr. Frank Cundall, the Secretary of the Institute of Jamaica, has given most valuable assistance by searching the old records in the Institute, and by revising the authorities given in the following list.

Again, in several charts issued by the United States authorities in recent times, tracks of the centres of cyclones are sometimes made to pass over Jamaica, so that it is to be presumed that storms or hurricanes must have occurred in Jamaica at the time of passage.

The following list of tracks across some part of Jamaica either require explanation, or the statement that they were not accompanied by any storm so that the tracks require revision:—

1.	1879, Aug. 16,	Over E end of Jamaica.
2.	1880, Aug. 19,	" W " "
3.	1886, Aug. ?	" W " "
4.	1886, Sept. 17,	Over Kingston and across Jamaica.
5.	1889, Aug. ?	Across middle of Jamaica.
6.	1889, Sept. 15,	Along the " "
7.	1905, Oct. 5,	Across the " "
8.	1908, Sept. ?	" " "

No. 1. In Clarendon there were very heavy rains that month; and heavy rains fell over the eastern end of the Island, but there was no storm.

No. 2. Probably refers to the hurricanes of Aug. 18, 19, which greatly damaged Kingston and the eastern half of the Island. It was not felt at the W. end.

No. 3. Probably refers to the hurricane of Aug. 19, 20, which passed over Kingston and the middle of the Island.

No. 4. The weather in Jamaica was undisturbed.

No. 5. do. do. do.

No. 6. On the 14th the weather was greatly disturbed, but the indications were uncertain: the telegraph offices were kept open that night, and it was not until 10 p.m. that the final hurricane warning was issued. But there was no storm or hurricane; and it was afterwards found that two storms had passed, one along the north side and one along the south side of Jamaica, and that the winds were nearly calm between them (W. R. No. 109).

No. 7. Between the 1st. and the 6th. Oct., a depression generated a little to the N.W. of Jamaica; it moved round the west end in a circle, the centre crossing the Island on the night of the 5th. and 6th.; there was very little wind, and the lowest bar. was only 0.26 in. below the mean.

No. 8. On Sept. 26th a cyclone passed south of Porto Rico on a westerly course and threatened Jamaica; but the cyclone curved to the N.W. and passed over Port-au-Prince. There was no storm in Jamaica.

It may be thought that more attention has been given to this subject than was necessary. But t seems proper that notes of the great historic hurricanes should be collected, and that the information gained by the Weather Service respecting more recent hurricanes should be analysed and the results put into a tangible form, and the work has naturally to be prefaced by a list of the Storms and Hurricanes which have actually occurred.

The following explanation of the terms used and of cyclonic action may be useful:—

I. A barometric "depression" over a large area involves weather "disturbance;" the low barometer is always accompanied by rain, sometimes by very heavy rain; and if the depression is not speedily filled up and disappears, the wind begins to circulate about its centre in a direction contrary to that of the hands of a watch laid face upwards on a table.

II. When this action is continued, the barometer gradually falls at the centre, the wind sweeps faster round the centre, and the system thus established is called a "cyclone."

III. At the centre there is a calm area; and when a cyclone is fully developed, the wind near the calm area moves round it with "hurricane" force as a rule.

IV. This cyclonic system does not remain stationary, but as a rule the centre moves in a straight or curved course with a speed of ten or twenty miles an hour.

To distinguish between gales, storms, and hurricanes, a Wind Scale is necessary; and the simplest scale possible was given by the U. S. Signal Service in the "Instructions to Observers" 1881. It is as follows:—

	Miles per hour.
Light	1 to 2
Gentle	3 .. 5
Fresh	6 .. 14
Brisk	15 .. 24
High	25 .. 39
Gale	40 .. 59
Storm	60 .. 79
Hurricane	80 and upwards

* For instance the great earthquake of 1692, June 7, is inserted as a hurricane. The weather that day at Port Royal was particularly close and hot.

Now the force or pressure of the wind varies as the square of its velocity, so that a storm of 70 miles an hour has twice the violence of a gale of 50 miles an hour; and this makes a fair distinction between the two, the former being destructive. As for the hurricane, it is generally beyond description; and the nature of all high winds to blow in gusts, culminates in the hurricane with terrible effect.

Having cleared the way, as it were, we can now give the list; it should however be mentioned, that the "storm" of 1904, June 13th, only just reached the limit of 60 miles an hour, and that it is retained on account of the unusual interest connected with two cyclones at the west end of the Island.

STORMS AND HURRICANES IN JAMAICA, FROM 1655 TO 1915.

			Authority, Notes, &c.
1670	Oct. 7	Storm; the fleet at Jamaica driven ashore.	[Poey: Keith Johnstone, Physical Atlas, 1856.
1689		Storm mentioned in the earlier volumes of the Jamaica Almanac.	Gardner refers to it as a hurricane, Ed. of 1909, p. 73.
1712	Aug. 28	The first hurricane experienced by the English in Jamaica.	[Poey: Gardner, p. 112.
1714	Aug. 29	Some vessels—men-of-war—were driven ashore during a storm.	[Poey: Keith Johnstone, Phys. Atlas.
*1722	Aug. 28	Great hurricane which damaged the whole Island. The centre passed over Port Royal.	Atkins, "A voyage to Guinea, Brazil, and the West Indies," 1737, p. 238; Long, Vol. II. p. 145.
1726	Oct. 22	Hurricane, which swept the east end of the Island.	Long, Vol. II. p. 146; Gardner, p. 115.
*1744	Oct. 20	Great hurricane which damaged the whole Island; 104 ships wrecked in harbour.	Clowes, III. 275; Long, II. 146; Gardner p. 125.
1751	Sept. 2	Storm.	Jamaica Almanac.
*1780	Oct. 3	Great hurricane which destroyed Savannah-la Mar, and damaged the whole Island.	William Beckford, "Descriptive Account of the Island of Jamaica, 1790; Bryan Edwards, Ed. of 1819, I. 236; Col. Reid, "Law of Storms" &c.
1781	Aug. 1	Hurricane; 120 vessels wrecked in Kingston harbour and at Port Royal.	Bryan Edwards, I. 234; brief reference only.
1784	July 30	Hurricane; all but 4 of the vessels at Kingston and Port Royal were wrecked.	" " "
1785	Aug. 27	Storm.	" " "
1786	Oct. 20	Storm, followed by great scarcity of food.	" " "
*1812	Oct. 12-14	Great hurricane which damaged the whole Island.	Jamaica Magazine: J. Physical Journal, 1835.
1813	Aug. 1	Storm which damaged shipping and buildings in Kingston.	J. Courant, Aug. 2-9, 1813; Bryan Edwards, V. 77.
"	Aug. 28	Storm at Savannah-la-Mar which wrecked vessels.	
1815	Oct. 18, 19	Hurricane over eastern part of the Island, and great floods.	J. Phys. Journal, 1835: Bryan Edwards, V. 78. Great destruction of houses in St. George, St. David, &c., see also Weather Report No. 352, April. 1908.
1818	Nov. 18, 20	Hurricane swept the western part of the Island.	
1832	Aug. 7	Violent storm which lasted only 3½ hours.	Keith Johnstone, Phys. Atlas.
1837	Sept. 26, 27	Storm, probably felt all over the Island.	J. Despatch; Col. Reid, "Law of Storms."
1844	Oct. 5	Storm over the western end of the Island, Falmouth, Montego Bay, and Black River.	
1874	Oct. 31 Nov. 2	Hurricane over the eastern half of the Island. Centre passed over St. Ann's Bay.	
*1880	Aug. 18	Great hurricane: two cyclones damaged the eastern half of the Island.	J. Weather Reports: Vol. I. Introduction.
1886	June 27	Storm, the centre of which passed rapidly from the east end to Montego Bay.	W.R. No. 67.
"	Aug. 19, 20	Hurricane, the centre of which took nearly the same course.	W.R. No 69
*1903	Aug. 11	Great hurricane, the centre of which took nearly the same course	U. S. Monthly Weather Review, Sept. 1905; W.R. Vol. IV. Introdution.
1904	June 13	Storm, and heavy rains over west end of the Island. Montego Bay bridge destroyed.	" Aug. 1904: WR. Vol. IV., Introduction.
*1912	Nov. 18	Great hurricane, two cyclones devastated the west end of the Island.	W.R. No. 411.
1915	Aug. 12, 13	Hurricane, which destroyed the banana fields throughout the Island, and damaged all the towns on the northern coast.	W.R. No. 445.
"	Sept. 25, 26.	Storm.	W.R. No. 447.

* Great Hurricanes.

51.05
J A
Stach

No. 450.

UNIVERSITY OF CALIFORNIA
MAR 20 1916

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

DECEMBER, 1915.

The Bar. pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew, 32° gravity at Lat. 45°, and mean sea-level. The bar. at Hill Gardens is reduced to the first three standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky ; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirro-stratus.

METEOROLOGICAL RESULTS.

Stations.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House ..	8	29.994	29.968	79.4	81.9	83.0	76.8	6.2	86.5	9	70.0	13	16 5
Kingston ..	24	29.958	29.911	71.4	82.9	85.7	70.4	15.3	88.1	30	68.1	2	20.0
Negril Point Light House ..	33	29.955	29.902	74.4	82.9	85.5	72.0	13.5	89.2	31	68.6	27	20 6
Castleton Gardens ..	496	..	..	69.2	81.8	84.9	68.3	16.6	90	13	64	18	26
Hope Gardens† ..	668	29.975	29.887	70.1	83.1	88.6	66.5	20.1	90	16*	64	15*	26
Stony Hill Indus. School ..	1,400	..	..	68.6	79.0	81.6	67.1	14.5	86	30	65	25*	21
Hill Gardens ..	4,900	25.291	25.263	60.7	6.4	6.8	55.6	12.4	72	30	54	2*	18

Stations.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction from and miles per hour.				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House ..	8	71.8	78	72.1	72	1.83	351	NE	17	NE	16	3.5	0.8	2.1	3.3	0.6	1.2
Kingston ..	24	67.5	87	72.1	70	0.56	96	N	3.8	SE	6.4	1.4	1.3	3.1	2.3	2.2	2 0
Negril Point Light House‡ ..	33	68.1	81	71.1	68	1.38	233	NE	11.5	NE	12.2	2.5	0.0	2.2	2.1	4.5	1.2
Castleton Gardens ..	496	67.4	93	71.6	72	17.68	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens ..	668	65.3	84	71.2	67	22.2	..	..	..	..	..	..	..	..	..	..	..
Stony Hill Indus. School ..	1,400	66.1	91	74.8	87	2.26	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens ..	4,900	57.5	89	60.8	90	1.04	..	..	..	..	..	..	..	..	..	..	..

* and on other days. † Hope Gardens. Bar. read at 9 a.m. and 3 p.m.
‡ Negril Point Light House. Wind 11 p.m N.E. 10.1

Plumb Point Light House { Average No. of Miles of wind per diem 138
Greatest on the 25th 305
Least on the 1st 68

THE RAINFALL.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1909." In obtaining the mean Rainfall for the month only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are comparable for each division. These results are reproduced in the comparative table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four divisions.

The Northern division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which form the Central sub-division; the Southern division comprises the southern shores from Holland Bay to South Negril; The North-Eastern and West-Central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

NORTH-EASTERN DIVISION.	DEC., 1915. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal ...	8.06	3.76	5	9	8.02
Spring Valley, Portland ...	13.88	7.79	5	15	.
Bath ..	6.99	1.43	21	15	8.80
Boston ...	10.33	3.45	5	10	9.92
Moore Town ...	46.70	9.60	4	13	25.39
Port Antonio ...	16.37	4.25	5	15	13.78
Fellowship ...	28.62	10.45	4	23	19.92
Windsor, Portland ...	...	...	...	...	...
Johnson River Bridge ...	2.44	0.54	24	13	5.53
Shrewsbury ...	33.78	14.80	4	21	24.66
Cedar Valley, St. Thos. ...	2.31	1.24	25	6	..
Hope Bay* ...	22.35	8.00	4	20	..
Moy Hall, St. Thos. ...	3.25	2.50	21	3	5.94
Brooklodge ...	4.08	1.58	15	11	...
Lennox ...	..	..	..	..	..
Farm Hill ...	7.15	2.70	31	4	10.94
Hill Gardens ...	..	...	...	...	..
Buff Bay ...	23.37	4.45	5	16	11.81
Vinery ...	27.25	4.60	4	20	..
Windsor Castle, Port. ...	18.58	3.08	21	16	...
Greenvale, Portland ...	34.00	14.80	4	14	...
Mt. Holstein ...	19.85	6.63	30	24	17.04
Irish Town ..	2.25	0.83	5	4	4.62
Rose Hill ...	5.42	2.00	30	6	...
Hardware Gap ...	4.50	..	...	...	6.86
Stony Hill Ind. School ...	2.26	0.75	24	8	4.16
Castleton Gardens ...	..	..	...	...	...
Lawrence Tavern ...	8.00	2.50	30	5	4.48
Cedar Valley, Red Hills ...	1.16	0.64	24	3	...
Carew Castle ...	4.47	2.35	30	9	..
Agualta Vale ...	19.74	6.35	16	20	...
Water Valley ...	20.49	6.10	16	19	6.83
Albany, Ry. Station ..	19.51	6.20	16	18	...
Platfield ...	10.31	2.00	31	12	...
Richmond, St. Mary ..	10.31	3.67	4	18	9.50
Hampstead, St. Mary ...	26.76	5.36	25	19	...
Troja ...	..	...	...	...	...
Guy's Hill ...	7.63	2.50	4	12	...
Lucky Hill ...	25.29	5.00	6	23	...
Rio Hoe ...	8.77	1.75	4	17	9.10
Unity Valley ...	7.21	1.29	30	15	7.66
Moneague ...	5.51	0.83	4	14	7.60
Claremont ...	7.05	1.25	3	12	8.49
Albion, St. Ann ...	7.91	1.81	4	16	8.19
Averham Park ...	11.41	1.70	3	17	10.41
Mean ...	12.61	...	..	...	...

*Gauge overflowed

NORTHERN DIVISION.	DEC., 1915. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In	In.			In.
Port Maria ...	10.39	2.10	21	17	8.06
Ocho Rios ...	9.28	2.50	16	10	5.74
Bogue, Ocho Rios ...	10.58	2.45	4	11	...
Rockfield ...	17.76	3.75	14	16	..
Drax Hall ...	8.60	1.50	16	18	8.47
Liberty Hill ...	13.98	3.60	4	19	...
St. Ann's Bay ...	9.40	1.96	16	23	7.07
Seville ...	11.11	2.50	16	19	7.77
Richmond Estate ...	..	..	..	..	..
Llandovery ...	15.11	2.68	16	16	8.17
Runaway Bay ...	10.80	2.60	14	13	...
Brown's Town ...	12.23	4.20	14	13	8.85
Alexandria ...	2.27	0.63	30	7	...
Chewmagna, St. Ann ...	3.01	0.90	5	12	3.38
Home Castle ...	15.35	6.95	14	16	7.63
Richmond Pen ...	6.90	2.50	14	17	4.86
Mahogany Hall ...	6.23	2.46	14	14	6.74
Barnstaple ...	10.03	5.60	14	9	...
Brampton Bryan ...	...	...	...	...	...
Bryan Castle ...	12.40	5.50	14	16	6.54
Braco ...	11.10	4.00	14	12	5.80
Arcadia ...	16.84	4.77	14	11	6.78
Lancaster ...	12.11	4.80	14	10	6.54
Harmony Hall ...	13.02	6.17	14	15	6.13
Vale Royal ...	11.21	3.20	14	10	7.88
Colchis Pen ...	2.89	1.26	14	8	4.47
Swanswick ...	13.40	3.50	23	12	...
Georgia ...	..	..	..	..	...
Long Pond ...	8.15	2.55	14	12	...
Hyde Hall ...	8.32	2.40	14	12	...
Steelfield ...	8.80	2.25	14	11	...
Etingdon ...	7.19	2.48	14	10	...
Lottery ...	6.00	1.45	14	10	5.54
Falmouth ...	3.71	0.76	14	14	5.17
Florence Hall ...	5.43	1.50	16	7	...
Good Hope ...	7.18	1.25	23	13	..
Unity ...	3.61	1.07	5	8	..
Kent ...	5.18	1.50	22	11	...
Gales Valley ...	..	..	..	..	..
Canaan ...	7.51	1.38	15	17	5.03
Content ...	4.59	1.59	12	9	...
Bellfield ...	4.72	1.53	13	9	...
Guilsbro ...	4.48	1.62	13	15	...
Glasgow ...	5.37	1.72	13	13	...
Moor Park ...	4.05	1.19	13	9	5.95
Rose Hall ...	2.50	0.70	23	7	...
Running Gut ...	2.75	0.90	23	7	..
Cinnamon Hill ...	2.50	0.50	23	7	...
Success ...	2.93	1.50	21	7	...
Montego Bay ...	1.21	0.73	3	5	4.75
Catherine Hall ...	...	...	...	..	...
Retirement ...	2.74	0.82	3	12	...
King Gate ...	1.21	1.45	3	4	3.74
Round Hill ...	..	..	..	..	...
Blue Hole ...	2.97	1.44	3	4	...
Haughton Court ...	..	..	...	...	...
Lucea ...	1.82	0.45	22	6	3.95
Green Island, Police St. ...	0.59	0.35	22	2	...
CENTRAL SUB-DIVISION.					
Headworks, Rio Cobre ...	0.20	0.20	14	1	2.05
Linstead ...	3.81	0.96	21	7	..
Berkshire Hall ...	3.97	1.75	4	12	4.36
Point Hill ...	2.66	1.00	5	9	5.92
Marlie Hill ..	1.10	0.61	21	3	...
Worthy Park ...	2.24	0.90	5	4	2.68
Croft Hill ...	3.47	1.34	5	5	...
Chapelton ...	3.31	1.12	15	7	2.47
Danks Works ...	4.52	1.28	21	7	2.57
Savoy House ...	4.04	1.31	14	7	2.81
Crooked River ...	..	..	..	..	...
Trout Hall ...	..	..	..	..	...
Frankfield ...	..	..	..	..	...
Cave Valley ...	...	...	...	...	...
Mean ...	7.30	...	...	..	...

WEST-CENTRAL DIVISION.	DEC., 1915. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Whitney ...	3.75	1.10	5	7	2.82
Mocho, Clarendon ...	4.84	1.25	5	5	...
Baillieston ...	2.31	0.95	23	6	2.44
Brokenhurst ...	3.15	1.40	14	6	3.80
Christiana ...	1.71	0.66	22	7	3.68
Chudleigh ...	3.60	2.75	21	5	...
Shooter's Hill ...	2.96	1.45	24	9	...
Spitzbergen ...	3.15	1.80	21	8	...
Kendal, Manchester ...	1.65	1.50	24	2	2.92
Marshalls Pen ...	...	...	...	...	...
Mandeville ...	1.69	0.80	24	7	3.62
Carlton, Mandeville ...	1.06	0.78	24	5	3.62
The Hill ...	2.71	0.88	14	6	...
Fairfield, Manchester ...	3.27	1.77	6	10	2.94
Ulster Spring ...	6.24	3.00	5	11	4.26
Freeman's Hall ...	1.85	0.55	14	7	...
Albert Town ...	4.70	1.50	5	8	...
Lowe River ...	1.16	0.30	2	6	4.00
Troy ...	7.63	3.50	10	4	3.58
Windsor Pen, Trel. ...	3.08	1.40	21	7	4.51
Medina ..	1.48	0.63	24	5	...
Wallingford ...	5.02	1.56	6	7	...
Balaclava Police Station ...	2.89	1.90	6	5	2.42
Siloah ...	7.01	2.15	5	8	3.57
Appleton Estate ...	...	...	...	..	...
Maggotty ...	0.84	0.32	21	5	2.98
Butlers ..	1.65	1.30	24	2	...
Dromilly Pen ...	...	...	..	...	...
Spring Vale ...	2.83	0.80	13	9	6.27
Garland ...	..	...	.	...	...
Mocho, Catadupa ...	2.31	0.48	21	5	...
Springfield, St. Elizabeth	1.58	0.97	24	5	2.61
Chesterfield, St. James ...	...	...	...	...	...
Catadupa Rly. Station ...	1.64	0.40	21	9	...
Kempshot ...	1.97	0.65	3	11	5.40
Cambridge, St. James ...	1.06	0.38	5	5	...
Ducketts ...	...	...	...	...	...
New Market, Police St. ...	1.29	0.65	6	3	...
The Bog, New Market ...	3.29	2.60	6	6	...
Kew Park ...	0.52	0.22	5	3	2.67
Knockalva ..	1.35	0.49	3	7	...
Ramble ...	...	...	...	...	...
Petersville ...	2.58	1.06	24	6	2.72
Darliston ...	2.49	1.80	24	5	3.47
Bluefields ...	...	...	...	...	...
Whithorn ...	1.95	0.95	5	9	2.94
Water Works Pen ...	0.90	0.70	24	3	...
Great Valley, Han. ...	2.90	1.00	21	5	5.13
Prospect Park ...	...	...	...	...	...
Blackheath ...	3.15	2.12	28	3	...
Fontabelle, Westm. ...	...	...	...	...	...
Belleisle ...	...	...	...	...	...
Morgan's Bridge ...	2.01	0.90	24	5	3.28
King's Vale Police St. ...	2.55	1.40	12	4	3.33
Mean ...	2.75	...	...	...	...

SOUTHERN DIVISION.	DEC., 1915. Total fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average
	In.	In.			In.
Morant Point L. H. ...	1.83	0.39	19	13	6.41
Elliott Hill ...	7.05	1.96	6	19	...
Pleasant Hill ...	6.65	1.90	5	14	...
East Prospect ...	...	...	...	...	...
Morant Bay ...	3.39	0.74	21	9	4.52
Easington ...	1.37	0.95	24	4	3.31
Bull Bay ...	0.80	0.80	24	1	1.75
Gordon Town ...	2.93	1.00	4	5	3.37
Hope Gardens ...	...	...	...	...	...
King's House Gardens ...	...	...	...	...	...
Melrose ...	1.44	0.63	5	7	...
Halfway Tree ...	1.70	1.25	24	2	2.12
Lunatic Asylum ...	0.69	0.68	24	2	2.03
Upper Elletson Road ...	0.80	0.68	24	3	..
Kingston P. W. Office ...	0.56	0.49	24	2	1.78
Plumb Point L. H. ...	0.66	0.63	24	2	1.60
Clifton Pen ...	0.50	0.50	29	1	...
Quarantine Station ...	0.55	0.55	24	1	...
Spanish Town ...	1.90	1.47	14	4	2.08
Hog Hole, St. Catherine...	2.32	0.50	5	5	2.83
Hartlands ...	1.16	1.28	23	6	2.23
Belmont, Guanaboa Vale	0.72	0.16	24	6	...
Old Harbour ...	0.00	...	...	...	...
May Pen ...	1.54	1.32	14	3	2.40
Hillside ...	...	...	...	...	...
Moreland ...	..	...	...	...	...
Money Musk ...	0.73	0.39	14	2	...
Dunkley's, Vere ...	...	...	...	...	...
Dry River " ...	1.64	0.85	24	3	..
Denbigh ...	...	...	...	...	..
Toll Gate ...	2.83	0.85	6	5	...
Woodleigh ...	...	...	...	...	...
New Yarmouth ...	1.08	0.83	24	2	1.97
Exeter, Vere ...	...	...	...	...	...
Rhymesbury ...	2.86	1.97	6	6	2.23
Milk River ...	1.46	1.00	28	4	2 48
Clarendon Pk. Ry. St. ...	..	...	...	...	...
Victoria Town ...	2.76	1.25	24	4	3.03
Hog Hole, S. Manch. ...	3.08	1.44	24	5	..
Stone's Hope ...	1.25	1.25	28	1	...
Newport, Manchester ...	2.46	1.28	24	9	4.11
Great Valley, Man. ...	0.93	0.30	24	5	2.77
Alligator Pond ...	0.81	0.50	14	3	2.70
Southfield, St. Elizabeth ...	0.66	0.56	23	2	...
Lititz ...	2.07	1.75	7	3	...
Long Hill ...	...	...	...	...	..
Torrington ...	0.49	0.38	24	2	2.72
Bethlehem, St. Eliz. ...	2.46	1.52	6	5	..
Santa Cruz ...	2.03	0.78	5	24	2.7
Pedro Plains Police St. ...	1.72	1.18	7	2	1.28
Mountainside ...	0.94	0.25	23	5	..
Black River ...	1.75	0.52	30	5	2.27
Font Hill ...	2.60	1.00	21	5	2.08
Mount Edgecombe ...	3.10	1.27	24	6	2.44
Sweet River ...	1.75	1.65	24	2	2.46
Windsor, Sav.-la-mar ...	0.89	0.68	24	3	2.48
Orchard ...	1.04	0.83	24	3	...
Sav.-la-mar ...	0.58	0.30	24	4	2.36
Meylersfield ...	0.31	0.14	24	3	...
Little London ...	0.49	0.17	18	4	0.47
Retreat ...	0.74	0.74	18	1	...
Negril Point L.H. ...	1.38	0.69	18	7	2.12
Mean ...	1.53	...	...	...	...

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

Divisional and Island Rainfall.	Dec. 1915.	Dec. Average.
	In.	In.
North-Eastern Division ...	12.61	10.28
Northern „ ...	7.30	5.45
West-Central „ ...	2.75	3.60
Southern „ ...	1.53	2.61
The Island ...	6.05	5.48

Very heavy rains fell in some parts of the north-eastern division, 47 inches at Moore Town, 34 at Shrewsbury, 34 at Greenvale and so on; while in many other parts of the Island the rainfall was small and below the average.

The Island Rainfall, 1915.

Month.	N.E.	N.	W.C.	S.	The Island.
	In.	In.	In.	In.	In.
Jan. ..	8.11	8.58	5.55	3.03	6.32
Feb. ..	6.15	3.21	4.08	2.16	3.90
Mar. ...	2.80	5.18	3.50	1.45	3.23
Apr. ...	13.43	8.02	7.54	6.09	8.77
May ...	7.99	5.70	7.60	4.47	6.44
June ...	16.97	6.65	12.30	11.69	11.90
July ..	6.48	4.97	8.02	3.44	5.82
Aug ...	18.63	7.77	18.22	11.78	14.10
Sept. ...	20.59	13.20	18.43	14.52	16.68
Oct. ...	15.65	8.11	9.13	10.03	10.73
Nov. ...	23.16	9.70	6.48	4.69	11.01
Dec ...	12.61	7.30	2.75	1.53	6.05
Totals ...	152.93	88.39	103.60	74.88	104.95

Magnetic Variation.

Kempshot.	Decl. E.
1912 ...	2° 28′
1913 ...	2° 30′
1914 ..	2° 31′
1915 ...	2° 36′

Shocks of Earthquake in Dec., 1915.

Date.	Standard Time (Approx.)	Intensity.	Notes: where felt, e tc.
	hr. min.		
12	4.15 p.m.	III	Kingston; N. & S. .058
		III	Melrose, Halfway Tree; N.W. & S.E. .050, 3 sec.
		II	Mt. Holstein; S.E. & N.W. .010
		II	Gayle and Manningsfield, Vere.
		III	Butlers; N. & S.
		III	Siloah; N.W. & S. E.
		II	Mt. Edgecombe; N.W. & S.E.
		II	Petersville.
		III	Gt. Valley, Han. E. & W.
		I	Kempshot, 5 secs.
		III	Negril; N. & S. .056, 2 secs., double shock.
13	12.35 p.m.	I	Manningsfield, Vere.
	12.5 p.m.	I	Petersville.

Notes.

The shocks felt in the east from Kingston to Gayle, came from P due Dec. 12.2., and B3 due 14.1., according to the direction registered at Kingston and Mt. Holstein.

The shocks felt in the west came from C and D, according to the directions registered at Negril and Great Valley. But the reported directions at Butlers and Siloah do not agree with either of those western epicentres, nor yet with S.

In W. R. No. 424, p. 11 onward, attention was called to shocks at different epicentres at nearly the same time, or after an interval of 24 hours; and the shocks on Dec. 12th afford a good example of the former.

The shocks on the 13th were probably "after shocks."

But a shock was also felt at the Cayman Islands on the 12th: so that the western part of the Caribbean was disturbed and may have caused some confusion among our centres.

MAXWELL HALL,
Government Meteorologist.

Montego Bay P.O.

METEOROLOGICAL OBSERVATIONS.—KINGSTON, JAMAICA. MEAN RESULTS FOR THE YEAR 1915. ELEVATION 24 FEET.

Month.	Bar. Pressure.		Temperature.						Extremes for the month.			Dewpoint and humidity.				Rain-fall.	Miles of wind per day.	Wind from and miles per hour.						Clouds : In tenths.						Weather Conditions.
																		7 a.m.		3 p.m.		11 p.m.		Lower		Middle.		Upper.		
	7 a.m.	3 p.m.	Mean.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Min.	Range.	7 a.m.		3 p.m.										7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	
	Ins.	Ins.	°	°	°	°	°	°	°	°	°	°		°		Ins.														
Jany. ..	29.931	29.882	76.9	71.1	82.3	86.2	70.3	15.9	89.9	66.8	23.1	67.3	88	71.0	69	1.11	172.9	NEbN	5.4	SE	11.5	NE	5.3	3.4	3.3	0.1	2.4	0.1	0.2	Rainfall about the average. Squally 1st, 17th and 18th. Sea breeze throughout the night on 1st, 11th, 17th, 18th and 19th. Humidity about the mean.
Feb. ..	29.953	29.901	75.9	69.5	82.0	86.0	68.4	17.6	88.5	65.1	23.4	64.5	84	69.2	65	0.83	180.0	NbE	5.3	SE	12.5	NbE	5.8	0.4	2.9	0.9	2.2	0.7	0.6	Rainfall slightly above the average. Sea breeze throughout the night on 2nd, 3rd aud 16th, "Norther" on 7th, 13th, 14th, 15th, 19th and 20th.
March ..	29.934	29 885	78.2	72.5	84.4	87.4	70.5	16.9	89.7	67.3	22.4	66.8	82	71.5	65	0.58	183.1	NNE	5.3	SE	13.0	NNE	7.0	1.2	2.5	0.8	2.6	1.7	0.4	Rainfall about one-half the average. Norther on the 8th. 18th and 25th, Sea breeze throughout the nights, 19th 20th, 22nd and 23d.
April ..	29.895	29.858	78.0	73.7	83.1	86.6	70.7	15.9	90.4	67.1	23.3	67.3	80	70.4	66	5.08	150.4	N	6.2	SE	10.9	NbE	5.5	1.1	2.9	1.3	2.0	2.0	1.9	Rainfall about five times the average. Sea breeze throughout the nights of 2nd, 27th and 28th, Norther on 4th, and 5th. Thunderstorm on 3rd, 13th and 24th.
May ..	29.904	29.863	80.4	77.8	84.7	87.6	73.5	14.1	91.0	67.9	23.1	71.2	80	74.3	71	3.08	237.3	NE	5.6	SE	17.8	EbN	5.0	1.1	2.3	1.7	2.3	1.2	1.7	Rainfall three-quarters the average. Squally on 17th. Distant thunderstorm on 17th, 24th and 26th.
June ..	29.902	29.876	81.2	78.3	84.6	89.5	74.6	14.9	94.3	71.9	22.4	73.3	85	76.0	76	14.51	206.4	ENE	5.3	SE	13.9	ENE	4.9	1.6	3.1	0.7	2.1	2.8	2.2	Rainfall three times the average. Distant lightning 4th, 5th, 8th, 13th, 15th, 17th, 18th, 19th and 28th. Squally on 16th.
July ..	29.948	29.909	81.7	77.6	86.3	90.8	74.3	16.5	92.8	69.5	23.3	71.2	81	73.6	66	0.42	217.2	NE	4.5	SE	18.4	ENE	4.4	0.8	1.8	1.5	2.0	3.5	3.5	Rainfall deficient. Frequent thunderstorms.
Aug. ..	29.891	29.864	81.4	77.6	85.5	90.1	74.6	15.5	93.5	71.6	21.9	71.2	81	74.0	69	6.24	207.2	ENE	6.7	SE	14.4	NEbN	5.2	1.2	4.0	1.0	1.8	3.0	2.0	Rainfall nearly double the average. Frequent distant thunderstorms.
Sept. ..	29.861	29.828	80.6	77.1	84.6	88.7	74.2	14.5	93.0	71.6	21.4	72.5	86	74.4	72	11.90	173.4	NE	5.7	SE	9.2	ENE	6.1	1.6	3.7	1.6	1.9	2.4	2.4	Rainfall nearly three times the average. Frequent distant thunderstorms.
Oct. .	29.867	29.814	80.0	75.8	83.9	88.7	73.6	15.1	92.5	70.8	21.7	71.8	88	74.3	73	10.58	125.7	NNE	5.0	SE	8.4	NEbN	4.4	1.2	2.8	.7	1.7	3.6	3.4	Rainfall about one and a half times the average. Distant lightning on several days. Thunderstorm on 10th, 14th, 16th, 25th, 26th and 31st.
Nov ..	29.916	29.873	77.4	72.8	82.1	85.5	71.3	14.2	88.7	68.5	20.2	69.7	90	72.6	73	4.57	96.1	NbE	3.8	SE	5.0	NNE	4.2	2.4	4.6	0.8	1.4	2.2	1.6	Rainfall about one and-a-half times the average. Thunderstorm on 7th, 11th, 13th and 25th. Little sea breeze.
Dec. ..	29.958	29.911	77.1	71.4	82.9	85.7	70.4	15.3	88.1	68.1	20.0	67.5	88	72.1	70	0.56	96.5	NbE	3.8	SE	6.4	NEbN	4.2	1.4	2.3	1.3	2.2	3.1	2.0	Rainfall about one-third the average. Thunderstorm on 5th, 14th and 31st. Gentle "Norther" on 7th.
Total ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	59.46	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Means ..	29.913	29.872	79.1	74.6	83.9	87.7	72.2	15.5	91.0	68.8	22.2	69.5	84	72.6	70	..	173.8	NEbN	5.2	SE	11.8	NEbN	5.2	1.6	3.0	1.0	2.1	2.2	1.8	Rainfall about 50% above the average.

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